

# **STANDARD DRAWINGS**

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2001 BACKFLOW PREVENTION DEVICE IRRIGATION CONNECTION  
2002 SECONDARY WATER LATERAL LAYOUT  
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2020 IRRIGATION SLIDE GATE DETAIL  
2021 HEADWALL DETAIL  
2022 HEADWALL DETAIL  
2023 SILT TRAP BOX DETAIL  
2024 SECONDARY WATER METER BOX

## **STORM DRAIN**

SD-1 MANHOLE COVERS  
SD-2 MANHOLE COVERS 2  
SD-3 STORM DRAIN MARKERS  
SD-4 STORM DRAIN MARKER ANCHORS  
4010 DRY WELL  
4015 RIPRAP APRON

## **STREETS**

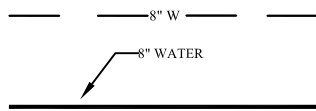
3010 TRENCH CROSS SECTION TERMINOLOGY & STANDARD SIZES  
3012 ROAD WIDENING  
S-1 ROAD WIDTHS AND BORDER AREAS  
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S-3 SIGN POSTS  
SN 10B SLIP BASE SIGN BASE (B3) INSTALLATION  
DT-01 CURB EXTENSION  
3020 SIGNAGE FOR GABRAGE ROUTES

## **STREETLIGHT**

SL-1 STANDARD UTILITY TRENCH  
SL-2 ELECTRICAL BOX LID  
SL-3 STEELIGHT PEDESTALS  
TSG 007077 CATEGORY 1a STREETLIGHT  
TSG 002636 CATEGORY 1b STREETLIGHT  
TSG 003175 CATEGORY 2 STREETLIGHT  
TSG 007220 CATEGORY 3 STREETLIGHT  
TSG 003314 CATEGORY 4 STREETLIGHT  
SP-6224-GLV CABLE RETAINER ASSEMBLY FOR 4" FOUNDATION ANCHOR  
SP-6200-GLV CABLE RETAINER ASSEMBLY FOR 6" FOUNDATION ANCHOR  
SP-6205-GLV CABLE RETAINER ASSEMBLY FOR 8" FOUNDATION ANCHOR  
SP-6358-GLV TUBE ASSEMBLY FOR 6" CABLE RETAINER  
PB-5520 DOOR ASSEMBLY TB1-17 TRANSFORMER BASE  
PB-5526 DOOR ASSEMBLY TB1-20 TRANSFORMER BASE

**WATER**





EXISTING WATER



PROPOSED WATER



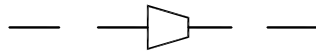
VALVE



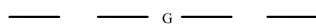
FIRE HYDRANT



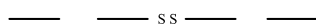
PRESSURE REGULATING VALVE



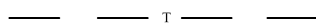
REDUCER/ENLARGER



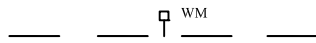
GAS LINE



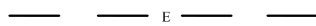
SEWER LINE



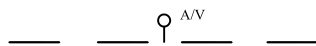
TELEPHONE LINE



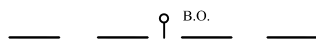
WATER METER



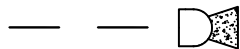
ELECTRIC LINE



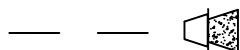
AIR AND VACUUM VALVE



BLOW-OFF



END CAP



PLUG



THRUST BLOCK

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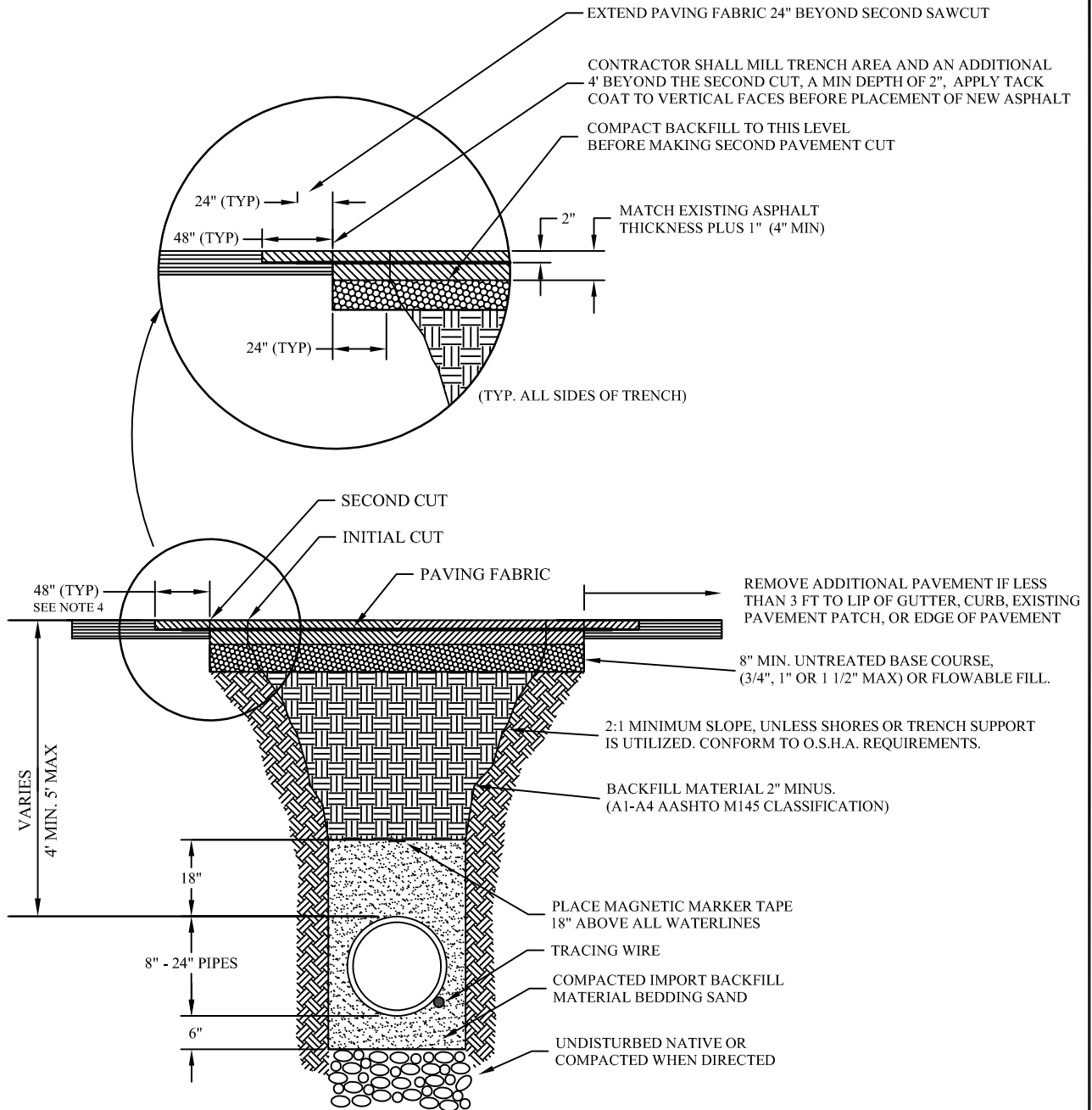


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DATE	REVISIONS	BY	

STANDARD SYMBOLS

STANDARD  
DRAWING  
**3005**



NOTES:

1. NO SAW CUTS TO END UP IN THE WHEEL PATH
2. AFTER THE SECOND CUT, PATCH TRENCH UP TO THE EXISTING ROAD SURFACE THEN MILL THE TRENCH AREA AND AN ADDITIONAL 4 FT BEYOND THE SECOND CUT OR AS DIRECT BY THE CITY ENGINEER ACCORDING TO CITY STANDARDS.
3. PAVING FABRIC PER APWA STANDARD ROADWAY PAVEMENT GEOTEXTILE, NON-WOVEN
4. IF THE OCI RATING OF THE ROAD IS BETWEEN 80 AND 100, THE 48" WILL BE INCREASED TO FULL WIDTH OF ROAD, OR AS DETERMINED BY THE CITY ENGINEER OR DESIGNEE.

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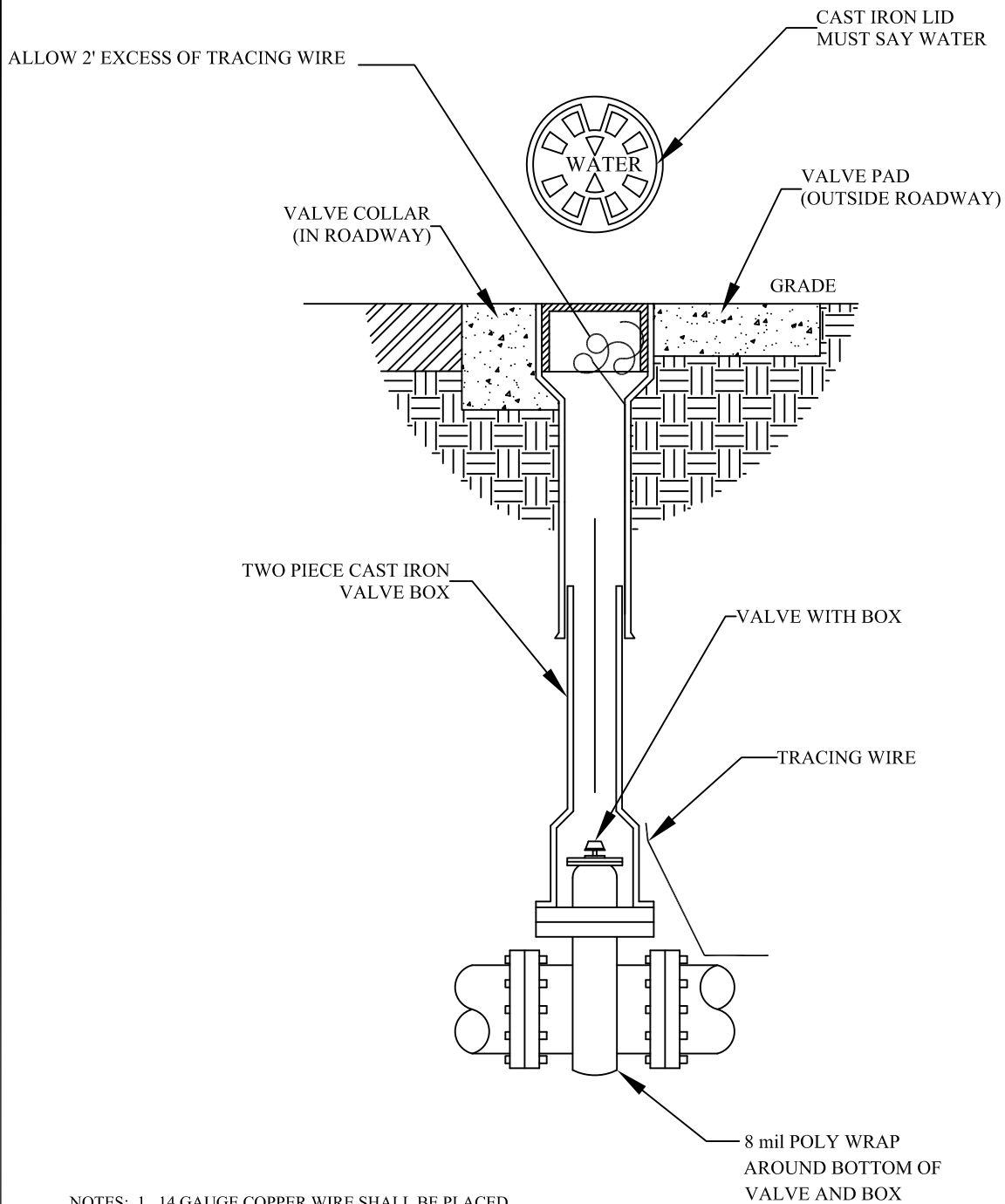


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			DATE
			1/06

**TRENCH CROSS SECTION  
TERMINOLOGY & STANDARD SIZES**

STANDARD  
DRAWING  
**3010**



- NOTES: 1. 14 GAUGE COPPER WIRE SHALL BE PLACED OUTSIDE OF BOTTOM OF BOX AND INSIDE TOP OF BOX
2. VALVE OPERATING NUTS SHALL BE WITHIN 3' TO THE FINISHED SURFACE. EXTENTIONS STEMS WITH ROCK SHIELDS SHALL BE PROVIDED WHERE DEPTHS EXCEED 4'.

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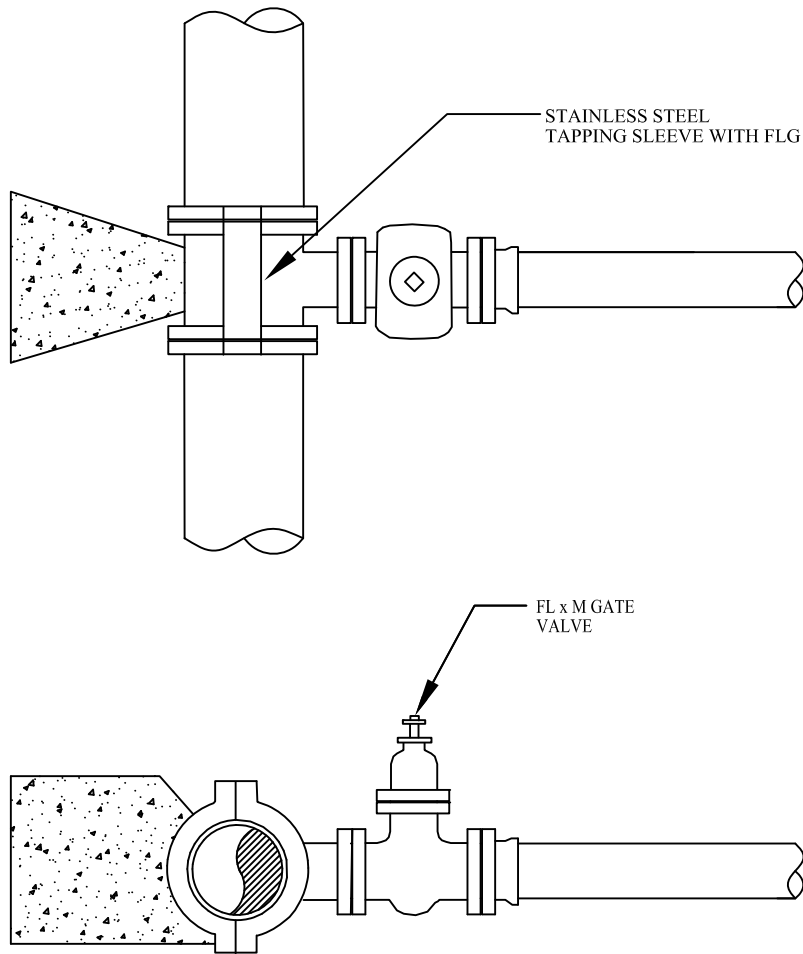


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**VALVE BOX INSTALLATION**

STANDARD  
DRAWING  
**3040**



NOTES:

1. REFER TO SECTION 3.3.8 'MAIN LINE VALVES' FOR TAPPING SLEEVE AND VALVE REQUIREMENTS, AND SECTION 3.7.9 'HOT TAPPING' FOR INSTALLATION INSTRUCTIONS  
INTERSECTIONS MAY BE OMITTED.
2. SEE SECTION 3.3.4 'MAIN LINE FITTING' AND SECTION 3.7.11 'INSTALLATION OF VALVES AND FITTINGS' FOR INSTALLATION AND WRAPPING FOR BOLTED CONNECTIONS  
THRUST BLOCK DETAILS.

RECOMMENDED MATERIALS - STAINLESS STEEL TAPPING SLEEVE WITH FLG  
MANUFACTURER TO BE AWWA APPROVED.

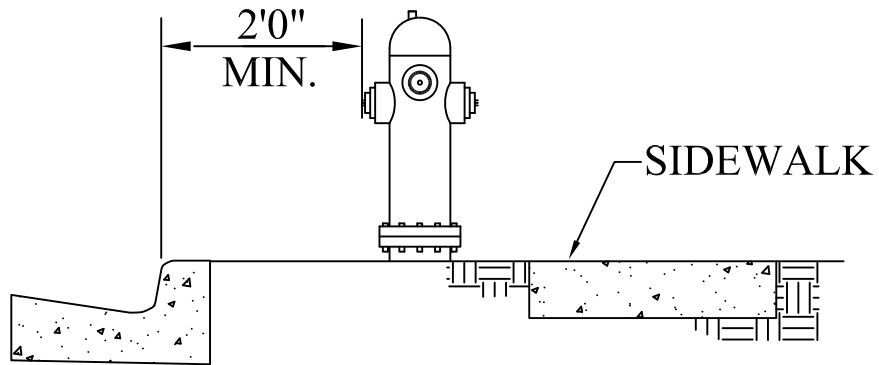
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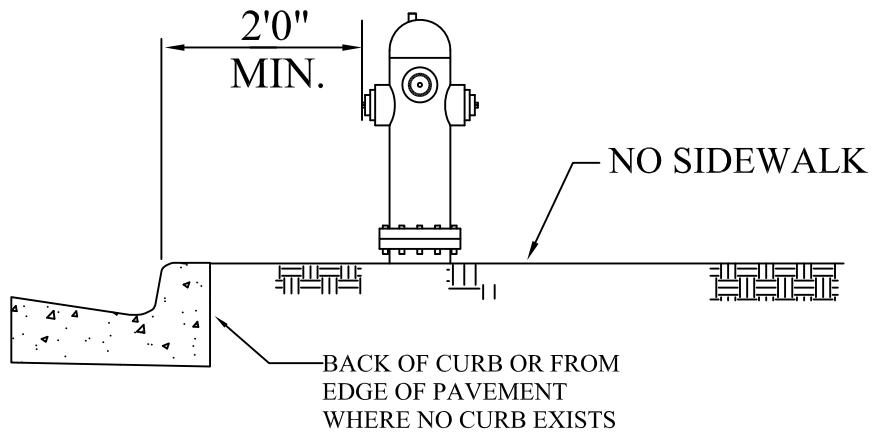
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			DRAWN:	<b>MECHANICAL JOINT TAPPING SLEEVE</b>		STANDARD DRAWING <b>3045</b>
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### CASE 1



### CASE 2



#### NOTES:

1. ABOVE GROUND UTILITIES SHALL BE LOCATED ON PROPERTY LINES SEPERATING LOTS.

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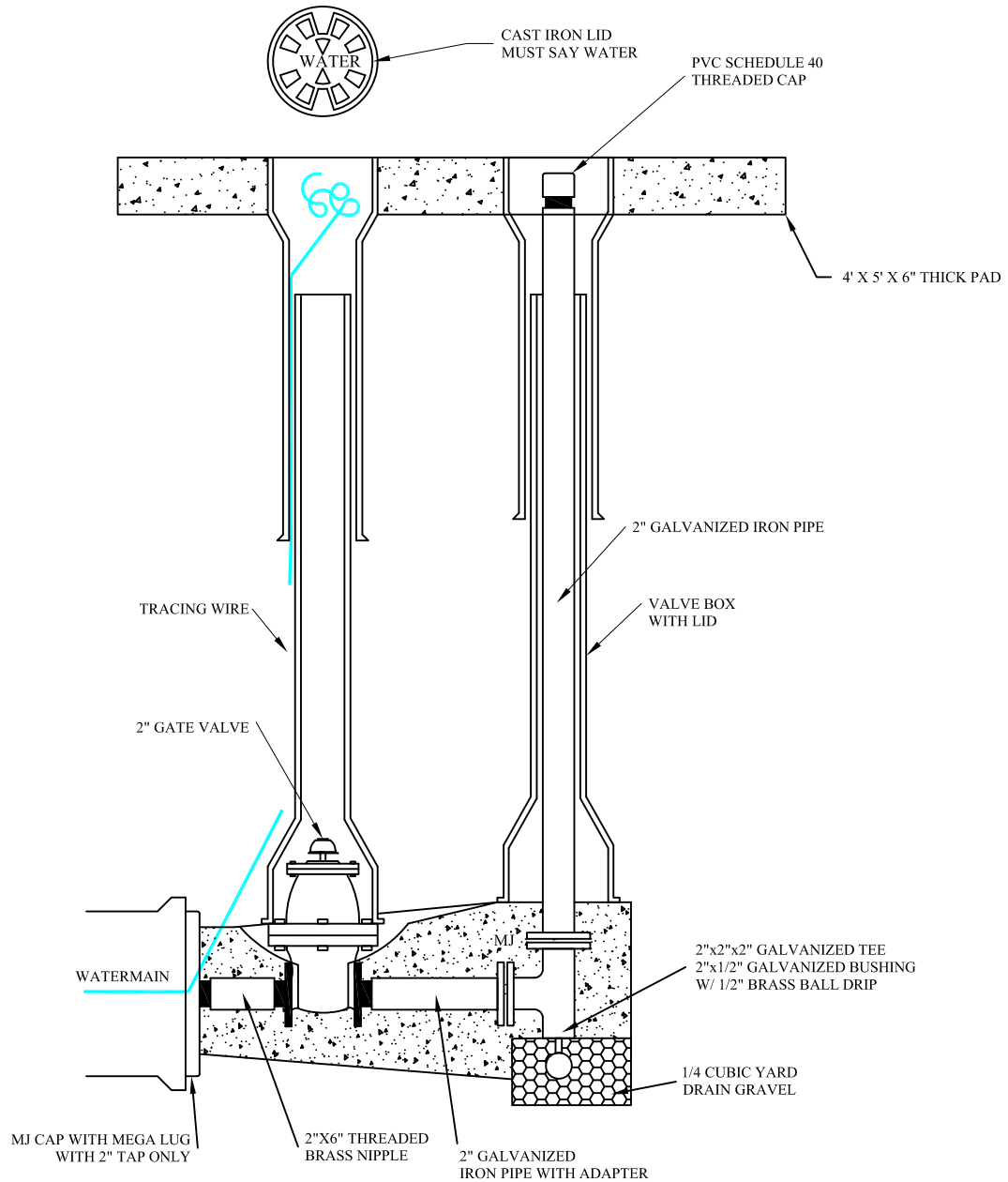
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**LOCATION OF  
FIRE HYDRANTS**

STANDARD  
DRAWING  
**3050**

STANDARD  
DRAWING  
**3055**

STANDARD  
DRAWING  
3056



NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THRUST BLOCK, SECURE INSPECTION OF INSTALLATION BY CITY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. CONCRETE: CLASS 2,000 MINIMUM. POUR CONCRETE AGAINST UNDISTURBED SOIL. THRUST BLOCK MUST MEET APWA.
4. TAPE: APPLY TAPE WRAP TO THE EXTERIOR OF ALL GALVANIZED PIPE PER AWWA C209
5. SPECIAL DESIGN: WATERMAINS 12" AND LARGER WILL REQUIRE SPECIAL WASHOUT ASSEMBLY DESIGN.
6. DRAINAGE: AFTER INSTALLATION OF WASHOUT VALVE ASSEMBLY, VERIFY THE WASHOUT VALVE RISER DRAINS TO GRAVEL.
7. WRAP ALL FOOTINGS PRIOR TO PLACEMENT OF THRUST BLOCKING

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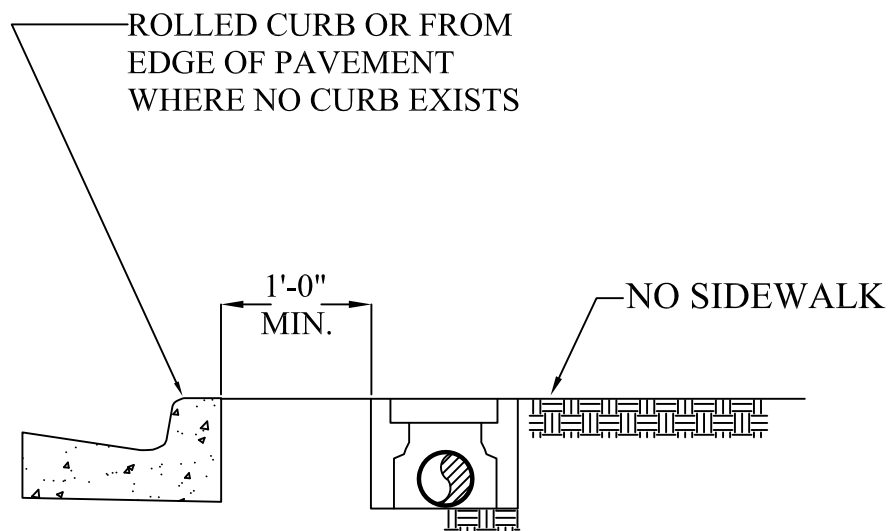
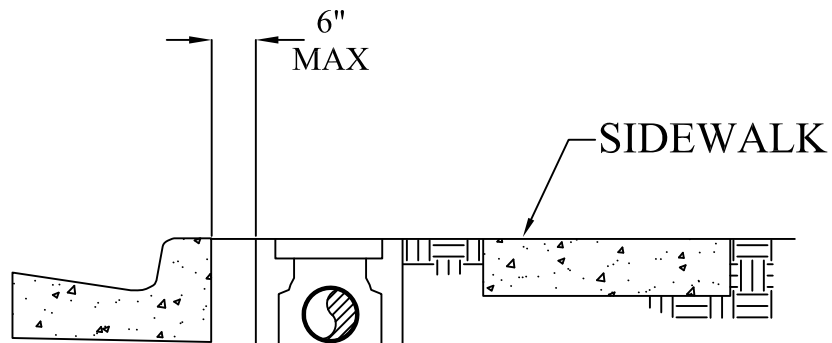
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**WASHOUT VALVE ASSEMBLY**

STANDARD  
DRAWING  
**3060**





NOTES:

1. METER BOXES SHALL BE LOCATED WITHIN 6" FROM THE BACK OF CURB. LONGITUDINAL AXIS PERPENDICULAR TO AND DIRECTLY BEHIND CURB.
2. METER BOXES SHALL NOT BE LOCATED IN DRIVEWAYS
3. COMBINATION AIR RELEASE AND VACUUM VALVE ASSEMBLIES SHALL BE LOCATED BEHIND THE SIDEWALK BUT WITHIN THE PUBLIC SERVICES EASEMENTS (PSE)
4. NO CONCRETE SHALL BE INSTALLED WITHIN 2' OF THE WATER METER.

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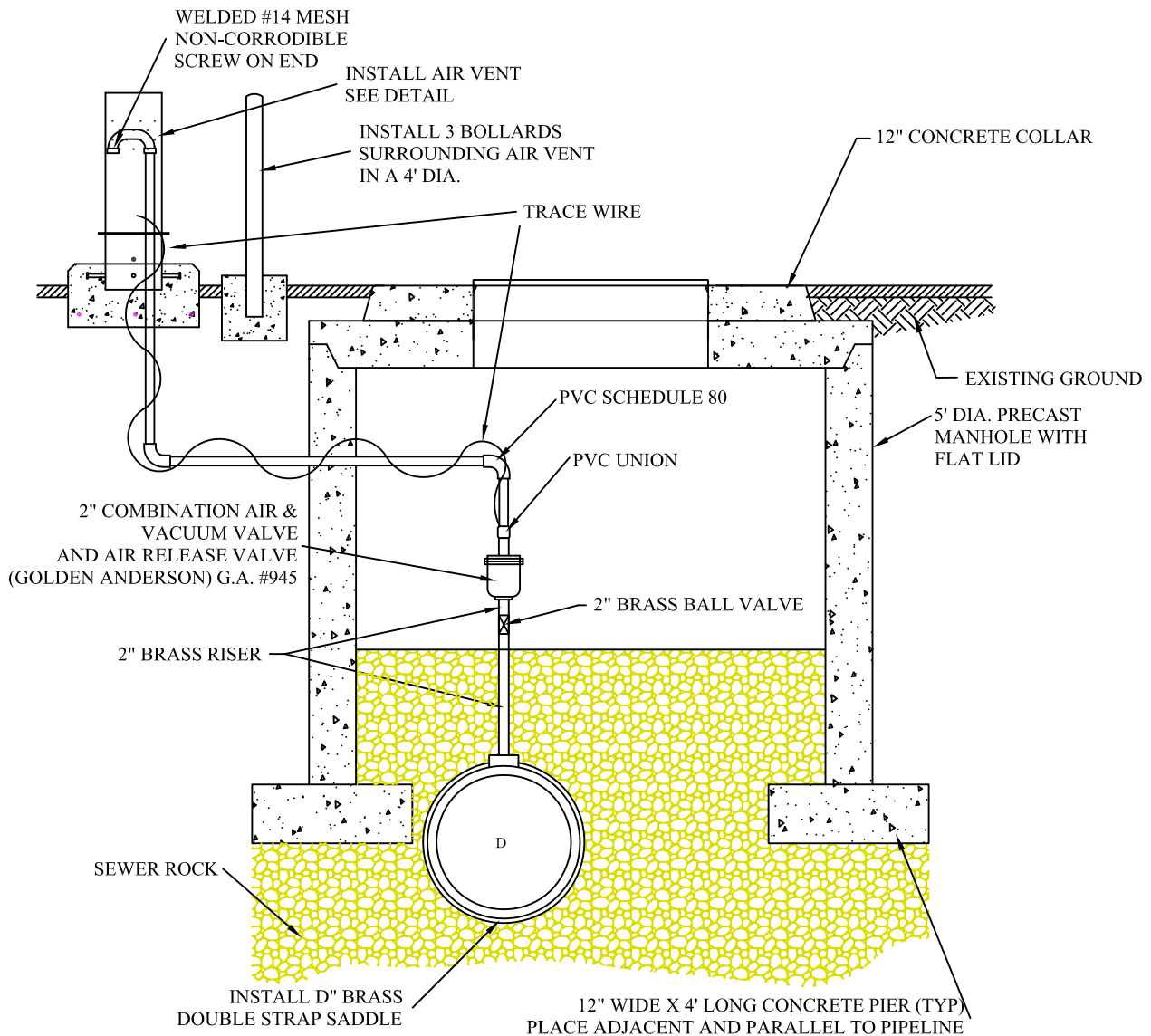


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WATER METER LOCATION

STANDARD  
DRAWING  
**3065**



NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THE ASSEMBLY, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. CONCRETE: CLASS 4,000. APPLY A SEALING/CURING COMPOUND PER SPECIFICATIONS.
4. SMALL FITTINGS: PROVIDE BRASS FITTINGS AND NIPPLES IF NOT SPECIFIED OTHERWISE. DO NOT USE GALVANIZED MATERIALS BELOW DIELECTRIC UNION.

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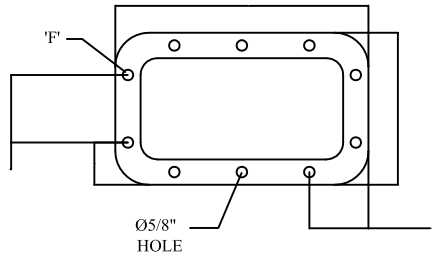


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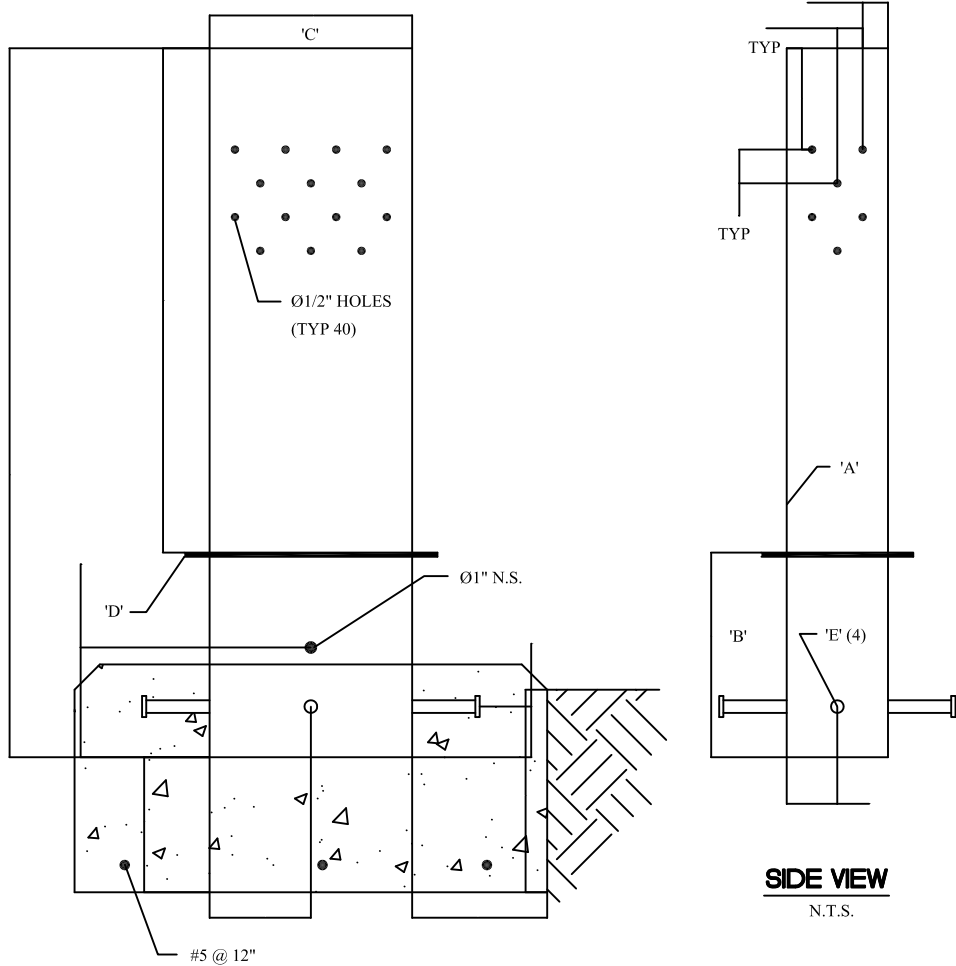
**COMBINATION AIR VACUUM  
VALVE ASSEMBLY**

STANDARD  
DRAWING  
**3070**



PARTS LIST		
ITEM	QTY	DESCRIPTION
A	1	TS 12" x 6" x 1/4" x 2'-6"
B	1	TS 12" x 6" x 1/4" x 12"
C	1	1/4" PL - 6" x 1'-0"
D	2	1/4" PL - 9" x 1'-3"
E	4	Ø3/4" x 4" H.S.A.
F	10	Ø1/2" x 3" BREAKAWAY BOLTS

**FLANGE DETAIL**  
ITEMS REMOVED FOR CLARITY, N.T.S.



**SIDE VIEW**  
N.T.S.

**NOTES:**

1. OPEN TO AIR-PLACE A NO. 14 MESH NON-CORRODIBLE SCREEN OVER THE OPEN END OF P.V.C. PIPE. ATTACH W/S.S. HOSE CLAMP.
2. HOT DIPPED GALVANIZED STEEL STAND PIPE FOR AIR VENT.
3. 1 1/2" MIN. CHAMFER ALL AROUND CONCRETE BASE.

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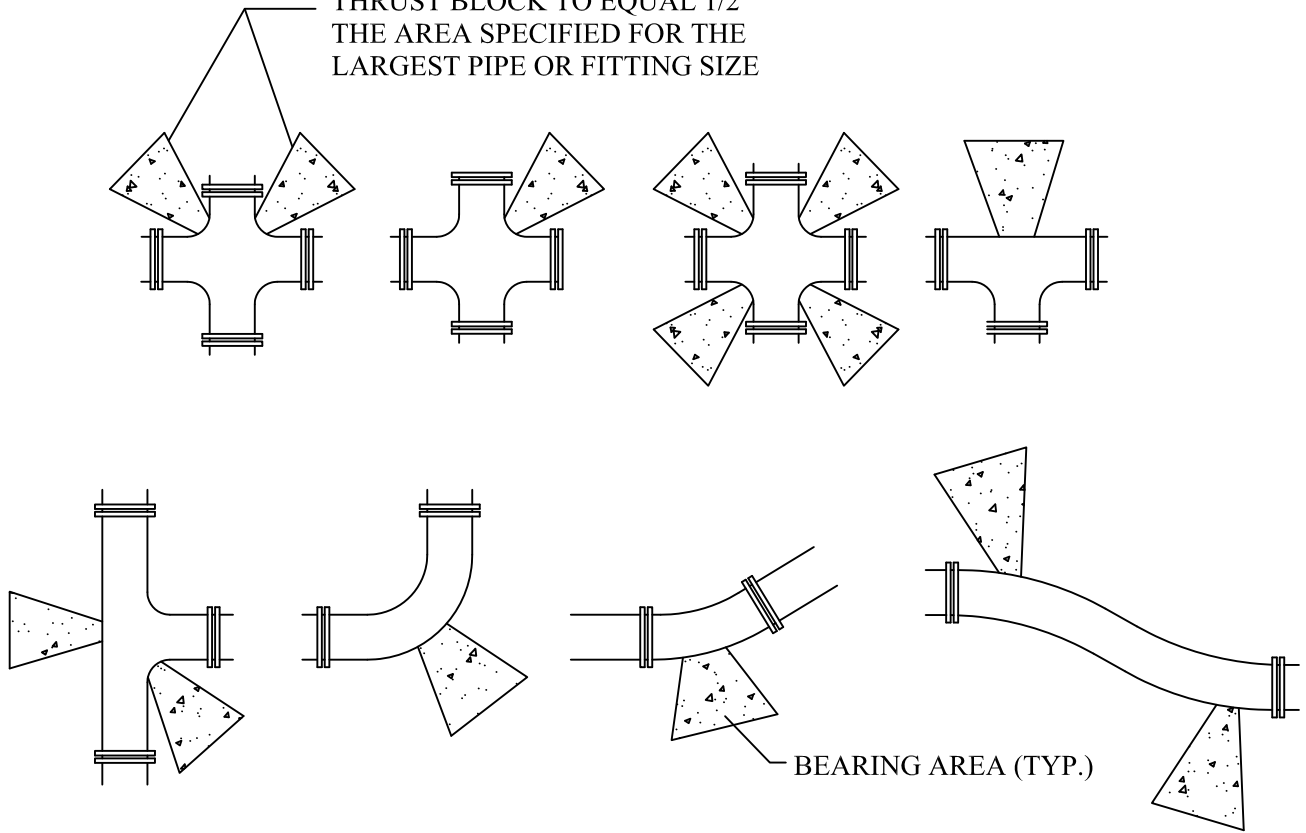
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**AIR VENT DETAIL**

STANDARD  
DRAWING  
**3075**

THE AREA OF BEARING PER  
THRUST BLOCK TO EQUAL 1/2  
THE AREA SPECIFIED FOR THE  
LARGEST PIPE OR FITTING SIZE



NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THRUST BLOCK, SECURE INSPECTIONS OF INSTALLATION BY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. CONCRETE: CLASS 2,000 MINIMUM. POUR CONCRETE AGAINST UNDISTURBED SOIL.
4. PIPE JOINTS: DO NOT COVER WITH CONCRETE. LEAVE COMPLETELY ACCESSIBLE.
5. GREASE: APPLY POLY-FM GREASE TO ALL BURIED METAL SURFACES. WRAP WITH 8 MIL THICK POLYETHYLENE SHEET AND TAPE WRAP.
6. SPECIAL CONSTRUCTION REQUIREMENTS:
  - A. THRUST DESIGN FOR PIPE SIZES OR CONFIGURATIONS NOT SHOWN REQUIRE SPECIAL DESIGN.
  - B. BEARING AREAS, VOLUMES, AND SPECIAL THRUST BLOCKING DETAILS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER THIS PLAN.
  - C. REINFORCING STEEL BARS TO BE EPOXY COATED AT LEAST 15 MILS THICK. MINIMUM STRESS YIELD STRENGTH OF TIE DOWN BARS IS 70,000 PSI.
  - D. LOCKING RESTRAINT DEVICES MAY BE USED IN CONJUNCTION WITH CONCRETE THRUST BLOCKING (AT OPTION OF ENGINEER).
  - E. RESTRAINT SIZING IS BASED UPON A MAXIMUM OPERATING PRESSURE OF 150 PSI AND A TEST PRESSURE OF 200 PSI, AND A MINIMUM SOIL BEARING STRESS OF 2,000 PSF. OPERATING PRESSURES IN EXCESS OF 150 PSI OR SOILS WITH LESS THAN 2,000 POUND BEARING STRENGTH WILL REQUIRE SPECIAL DESIGN.
  - F. CONCRETE MUST BE ALLOWED TO CURE IN THRUST RESTRAINTS FOR 5 DAYS PRIOR TO PRESSURIZING WATER LINES OR HAVE ADDITIONAL APPROVED THRUST RESTRAINTS INSTALLED PRIOR TO PRESSURIZING THE WATER LINE.
7. MEGALUGS REQUIRED ON ALL FITTINGS

MINIMUM BEARING AREA IN SQ. FT.						
SIZE OF PIPE	TEES, VALVES DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS	
4"	2	3	2	2	2	
6"	4	5.5	3	1.5	1	
8"	6.5	9.5	5	2.75	1.5	
12"	14	20	11	5.5	3	
14"	19	26.5	14.5	7.5	4	
16"	24	34	18.5	9.5	6	
20"	27	52	28.5	14.5	16	
24"	53	74	41	21	53	
30"	81	114	62	32	16	

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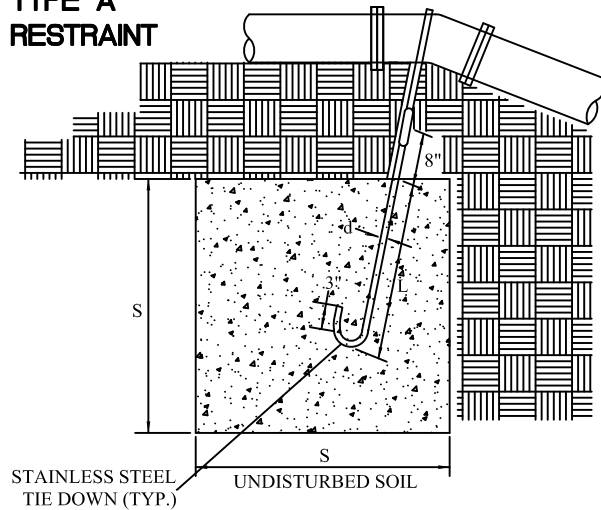
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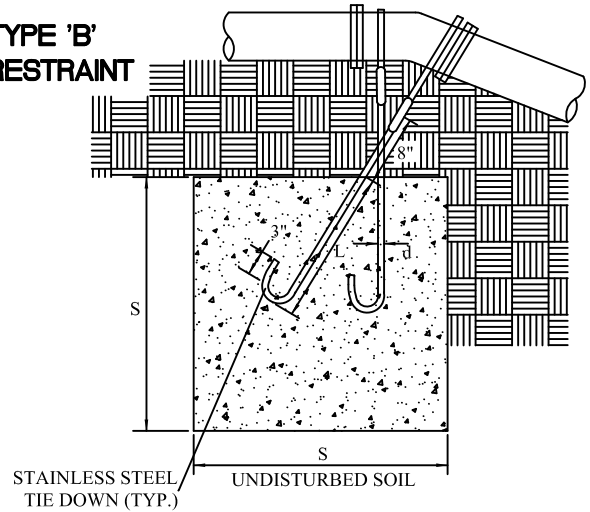
**DIRECT BEARING  
THRUST BLOCKS**

STANDARD  
DRAWING  
**3080**

### TYPE 'A' RESTRAINT



### TYPE 'B' RESTRAINT



### TYPE 'A' RESTRAINT

FOR 11 1/4°-22 1/2° VERTICAL BENDS

TABLE OF DIMENSIONS					
	VB		S	d	L
PIPE SIZE NOMIN. DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU FT. OF CONC. BLOCKING	SIDE OF CUBE FEET	DIAMETER OF SHACK OR REBAR RODS - INCH	DEPTH OF RODS IN CONCRETE FT.
4"	11 1/4°	8	2.0	5/8"	1.5
	22 1/2°	15.6	2.5	5/8"	2.0
6"	11 1/4°	15.6	2.5	5/8"	2.0
	22 1/2°	34.3	3.25	5/8"	2.0
8"	11 1/4°	27	3.0	5/8"	2.0
	22 1/2°	64	4.0	5/8"	2.0
12"	11 1/4°	64	4.0	3/4"	2.0
	22 1/2°	125	5.0	3/4"	3.0
16"	11 1/4°	107	4.25	7/8"	3.0
	22 1/2°	216	6.0	7/8"	4.0
20"	11 1/4°	138	5.17	1"	3.5
	22 1/2°	334	6.94	1"	4.0
24"	11 1/4°	240	6.22	1"	4.0
	22 1/2°	476	7.81	1"	4.0
30"	11 1/4°	369	7.17	1"	4.0
	22 1/2°	733	9.02	1"	4.0

### TYPE 'B' RESTRAINT

FOR 45° VERTICAL BENDS

TABLE OF DIMENSIONS					
	VB		S	d	L
PIPE SIZE NOMIN. DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU Y. OF CONC. BLOCKING	SIDE OF CUBE FEET	DIAMETER OF SHACK OR REBAR RODS - INCH	DEPTH OF RODS IN CONCRETE FT.
4"	45°	1	3.0	5/8"	2.0
				5/8"	
6"	45°	2.37	4.0	5/8"	2.5
				5/8"	
8"	45°	3.97	4.75	5/8"	2.0
				5/8"	
12"	45°	9.04	6.25	5/8"	4.0
				5/8"	
16"	45°	17.24	7.75	3/4"	4.0
				3/4"	
20"	45°	26.52	8.95	3/4"	4.0
				3/4"	
24"	45°	37.82	10.07	3/4"	4.0
				3/4"	
30"	45°	58.26	11.63	3/4"	4.0
				3/4"	

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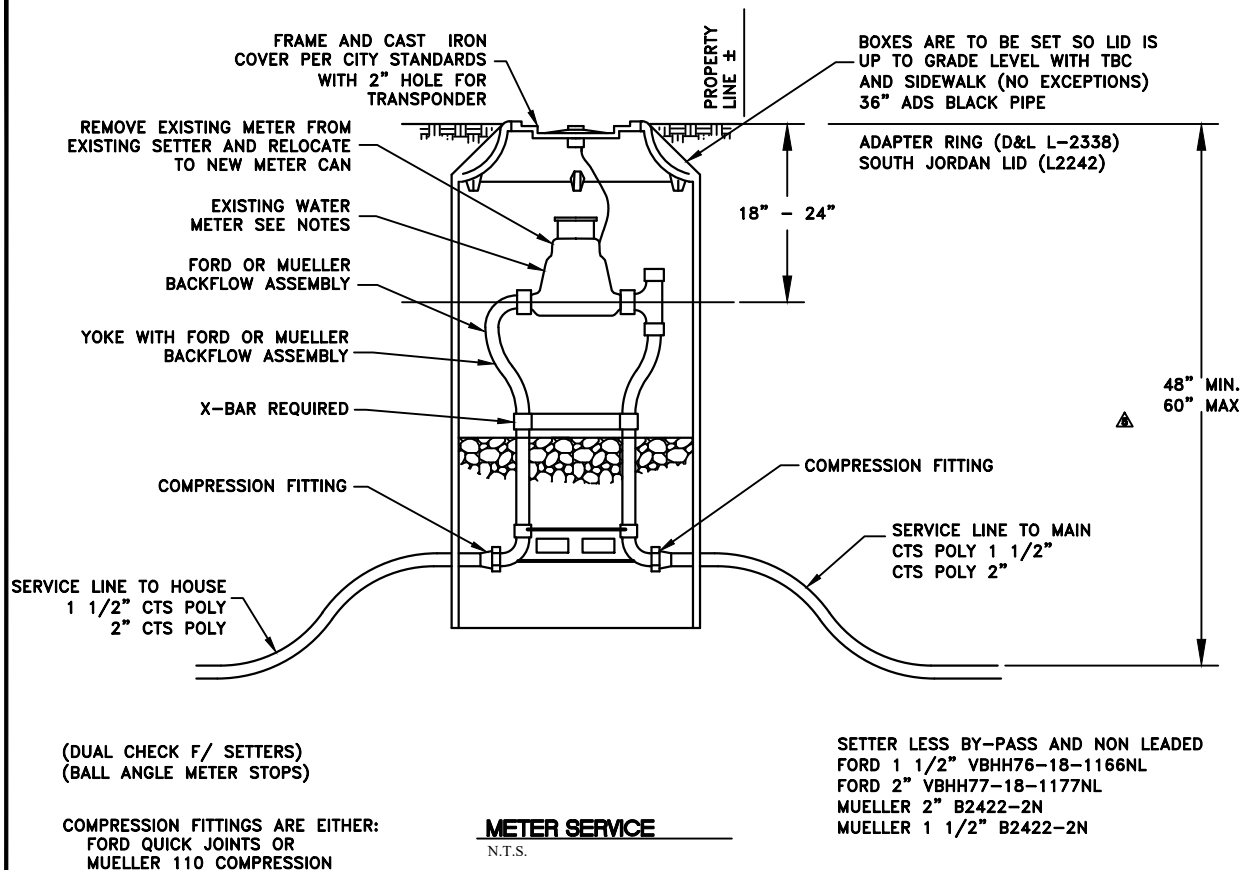
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**TIE DOWN  
THRUST RESTRAINTS**

STANDARD  
DRAWING  
**3085**

STANDARD  
DRAWING  
3090



NOTES:

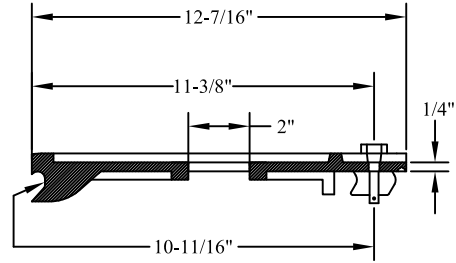
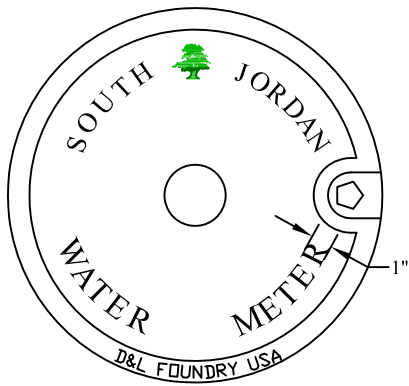
1. INSPECTION: PRIOR TO BACKFILLING AROUND THE METER BOX, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
2. BACKFILLING: INSTALL ALL BACKFILL MATERIAL PER APWA SECTION 02320 IN LIFTS NOT EXCEEDING 6 INCHES AFTER COMPACTION. COMPACT EACH LIFT TO A MINIMUM RELATIVE DENSITY OF 96 PERCENT.
3. PLACEMENT:
  - A. DO NOT INSTALL METERS IN HARD SURFACE 2 FEET MINIMUM FROM LID.
  - B. IN NEW CONSTRUCTION, INSTALL METER AT CENTER OF LOT OF PER SOUTH JORDAN CITY REQUIREMENTS.
  - C. ALL METERS ARE TO BE INSTALLED IN THE PARK STRIP OR WITHIN 4 FEET OF THE PROPERTY LINE (STREET SIDE) AND OUTSIDE OF HARD SURFACE.

PREPARED BY: \_\_\_\_\_

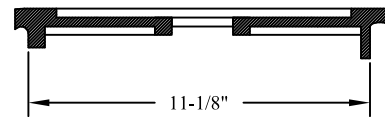
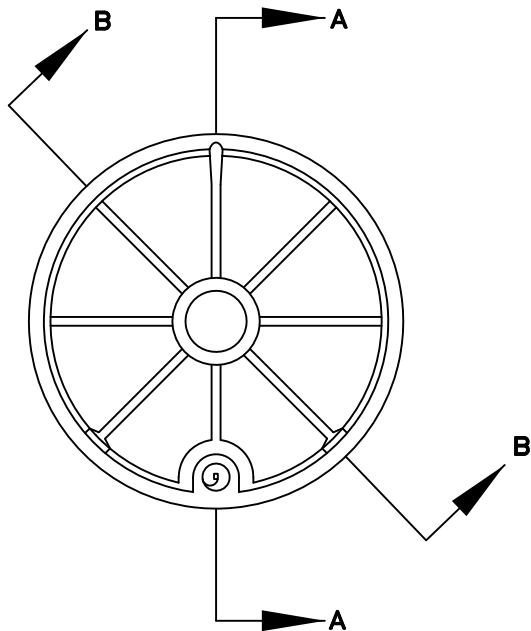


**SOUTH JORDAN CITY**

		DRAWN:	<div style="text-align: center;"> <h2>1 1/2" AND 2" METER SERVICE</h2> </div>	STANDARD DRAWING <b>3091</b>
		DATE		
		BY		



SECTION A-A



SECTION B-B

D&L FOUNDRY & SUPPLY  
MODEL #L-2240-14  
13 LBS.

WATER METER COVER  
N.T.S.

PREPARED BY: \_\_\_\_\_



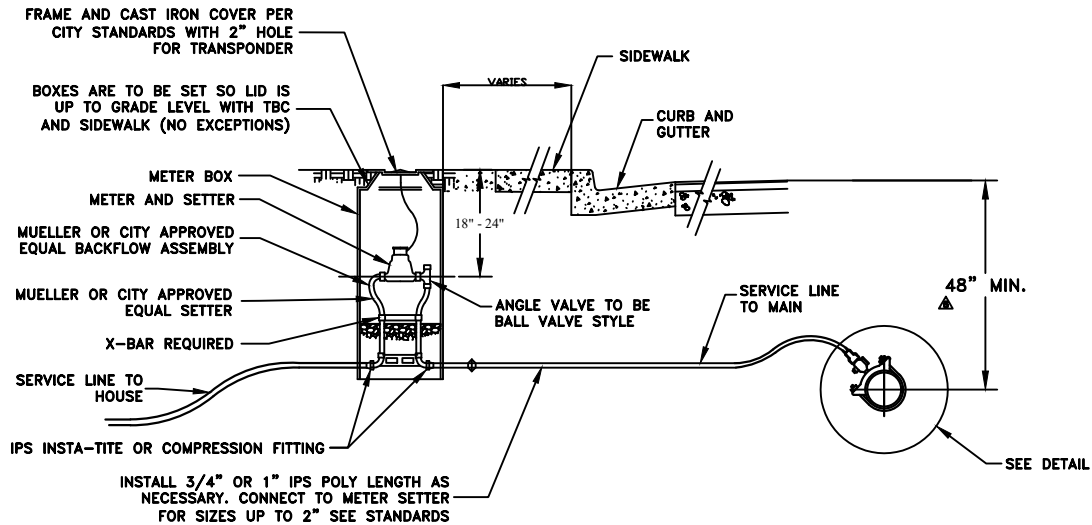
**SOUTH JORDAN CITY**

		DRAWN:
		DATE
		BY

**METER SERVICE**

STANDARD  
DRAWING  
**3092**





WATER SERVICE ADJUSTMENTS

- NOTES:
1. FITTINGS – PROVIDE BRASS FITTINGS AND NIPPLES ON ALL SERVICE LINE CONNECTIONS. DO NOT USE GALVANIZED MATERIALS
  2. INSPECTION: PRIOR TO BACKFILLING AROUND THE METER BOX, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
  3. BACKFILLING: INSTALL ALL BACKFILL MATERIAL PER APWA SECTION 02320 IN LIFTS NOT EXCEEDING 6 INCHES AFTER COMPACTION. COMPACT EACH LIFT TO A MINIMUM RELATIVE DENSITY OF 96 PERCENT.
  4. PLACEMENT:
    - A. DO NOT INSTALL METERS IN HARD SURFACE 2 FEET MINIMUM FROM LID.
    - B. IN NEW CONSTRUCTION, INSTALL METER AT CENTER OF LOT OF PER SOUTH JORDAN CITY REQUIREMENTS.
    - C. ALL METERS ARE TO BE INSTALLED IN THE PARK STRIP OR WITHIN 4 FEET OF THE PROPERTY LINE (STREET SIDE) AND OUTSIDE OF HARD SURFACE.

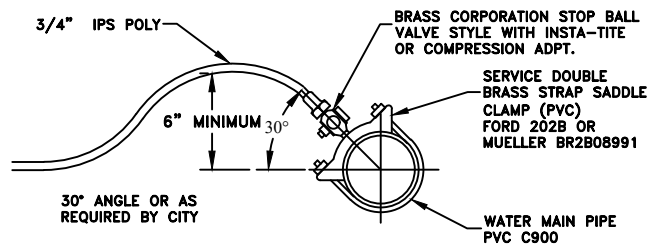
### TYPICAL CULINARY WATER SERVICE CONNECTION

N.T.S.

NOTES:

1. INSPECTION – PRIOR TO BACKFILLING AROUND TAPS, SECURE INSPECTION OF INSTALLATION BY SOUTH JORDAN WATER DEPARTMENT
2. BACKFILL – INSTALL AND COMPACT ALL BACKFILL MATERIAL PER CITY STANDARD
3. TAPPING – PLACE TAPS A MINIMUM OF 36" APART. USE A TAPPING TOOL WHICH IS SIZED CORRESPONDING TO THE SIZE OF THE SERVICE LINE TO BE INSTALLED. NO TAPS WITHIN 36" OF END OF ANY PIPE.

TAPE – TEFLON TAPE OR PIPE DOPE IS REQUIRED ON ALL TAPS



COMPRESSION FITTINGS ARE EITHER:  
FORD QUICK JOINTS OR  
MUELLER 110 COMPRESSION

### SERVICE TAPS

N.T.S.

PREPARED BY: \_\_\_\_\_

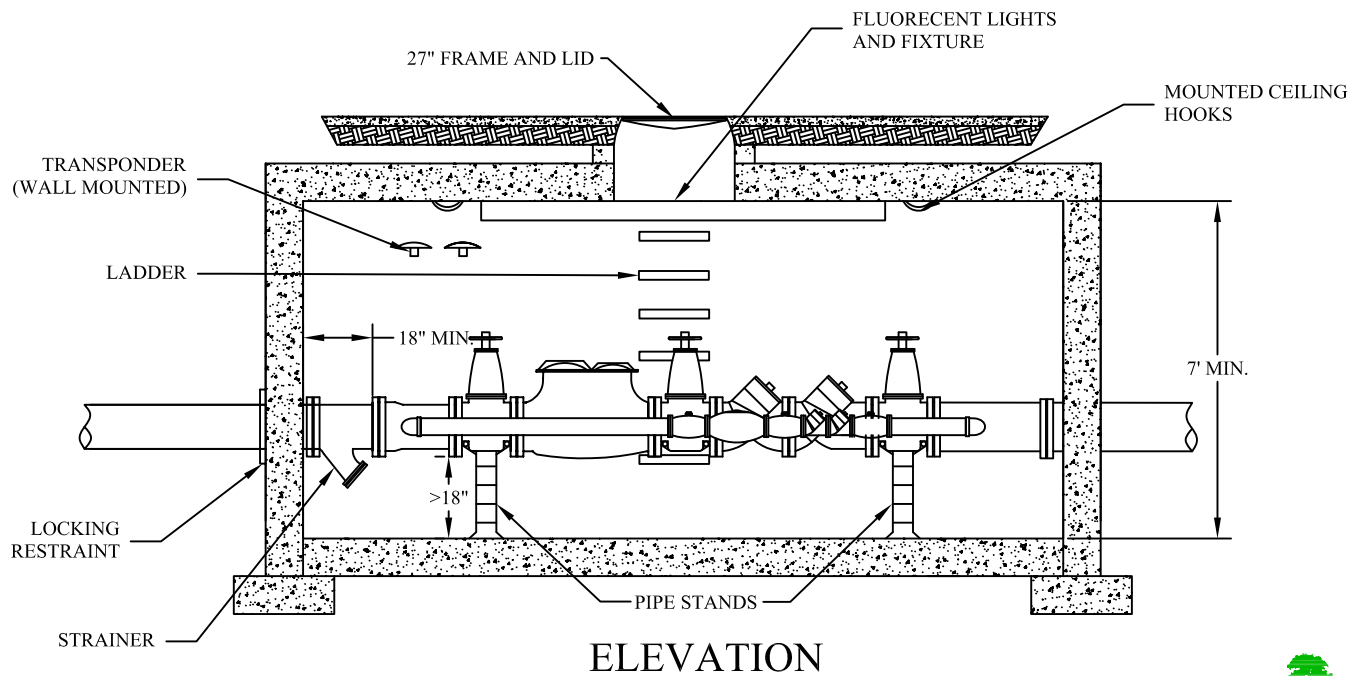
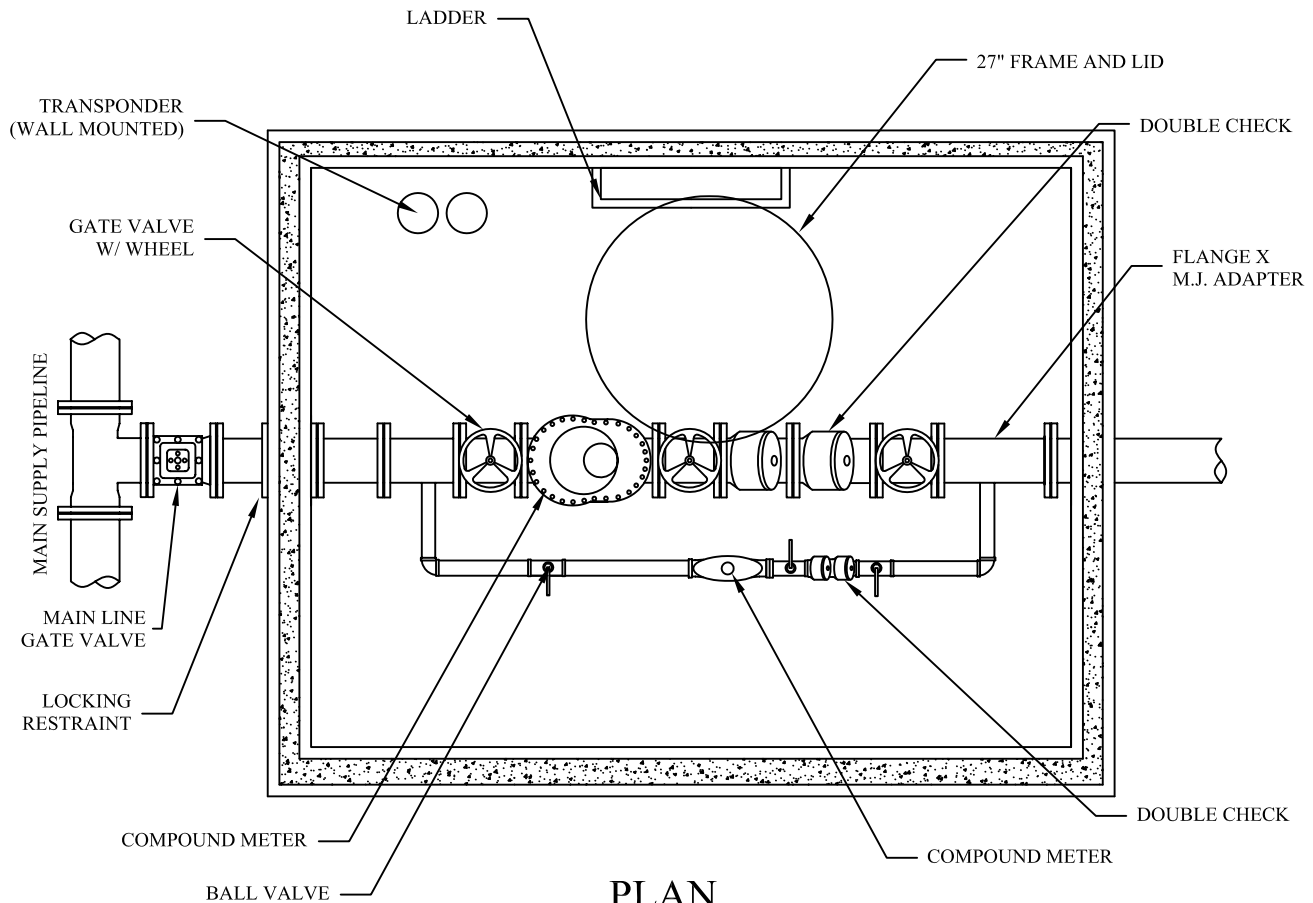


SOUTH JORDAN CITY

			DRAWN:
			DATE
DATE	REVISIONS	BY	

3/4" - 2" WATER METER PLAN  
SERVICE INSTALLATION

STANDARD  
DRAWING  
**3095**



PREPARED BY: \_\_\_\_\_

**SOUTH JORDAN CITY**

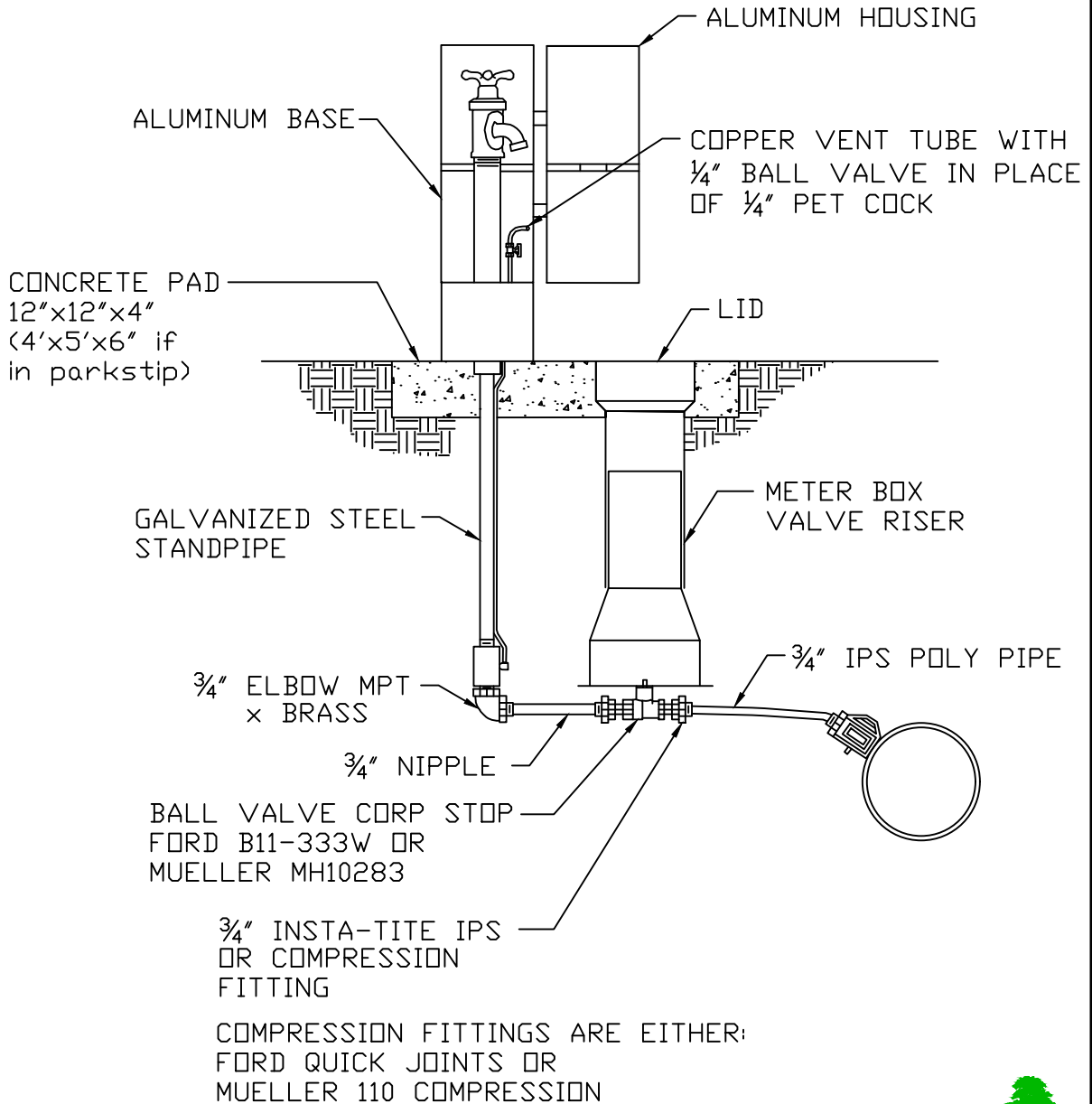
DATE	REVISIONS	BY	DRAWN: AP
			DATE 10/08

**3"- 8" WATER VAULT DETAIL**



STANDARD  
DRAWING  
**3100**

MODEL: ECLIPSE 88ss



PREPARED BY: \_\_\_\_\_

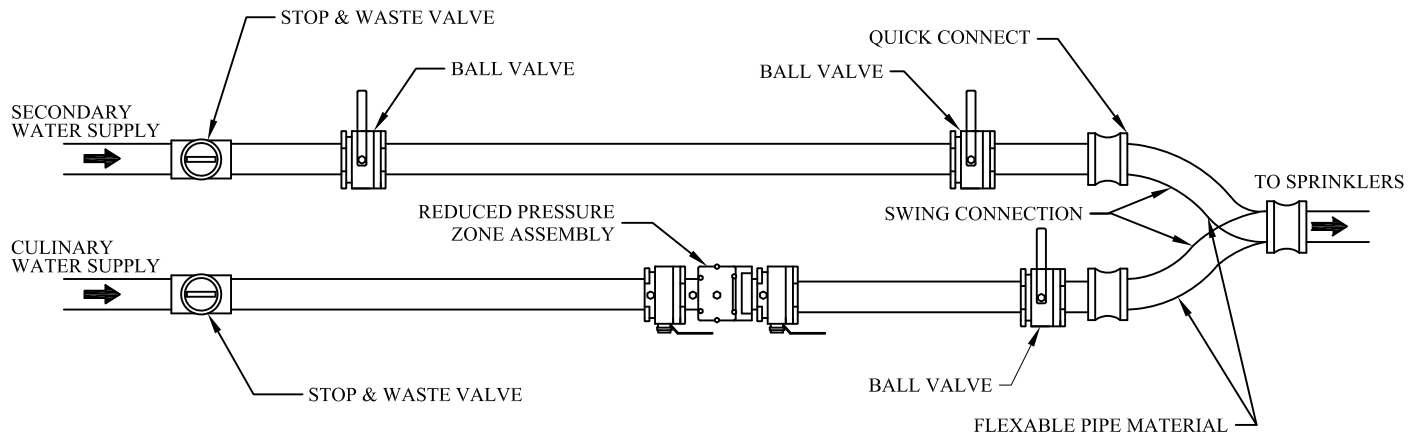


SOUTH JORDAN CITY

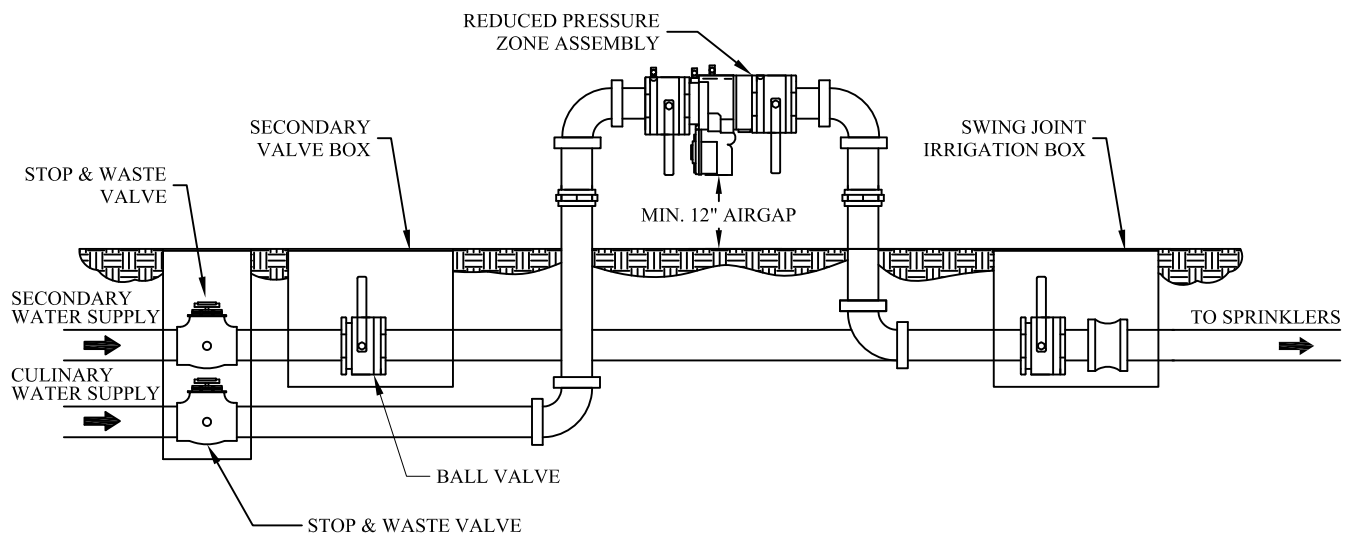
			DRAWN:
			KS
			DATE
			1/12
DATE	REVISIONS	BY	

SAMPLING TAP  
FOR RESIDENTIAL SUBDIVISIONS

STANDARD  
DRAWING  
**3110**



**PLAN VIEW**  
NOT TO SCALE



**PROFILE VIEW**  
NOT TO SCALE

**NOTES:**

1. THE SWING CONNECTION IS INSTALLED SO THAT EITHER THE SECONDARY IRRIGATION WATER OR THE CULINARY WATER IS CONNECTED AND FEEDING THE SPRINKLER SYSTEM AT THE ONE TIME, NEVER BOTH.
2. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE LOCATED AT A MINIMUM OF 12" FROM WALL, FENCE OR OTHER OBSTACLE.
3. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE LOCATED AT A MINIMUM OF 12" ABOVE GRADE (NOT ALLOWED IN A PIT BELOW GRADE).
4. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE TESTED BY A CERTIFIED BACKFLOW TECHNICIAN ON AN ANNUAL BASIS.



**SOUTH JORDAN CITY**

			DRAWN:
			KS
			DATE:
			2/06
DATE	REVISIONS	BY	

**BACKFLOW PREVENTION DEVICE  
IRRIGATION CONNECTION**

STANDARD  
DRAWING  
**2001**

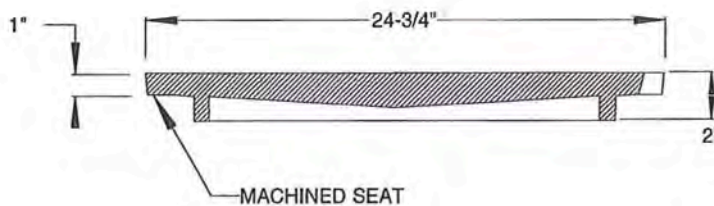
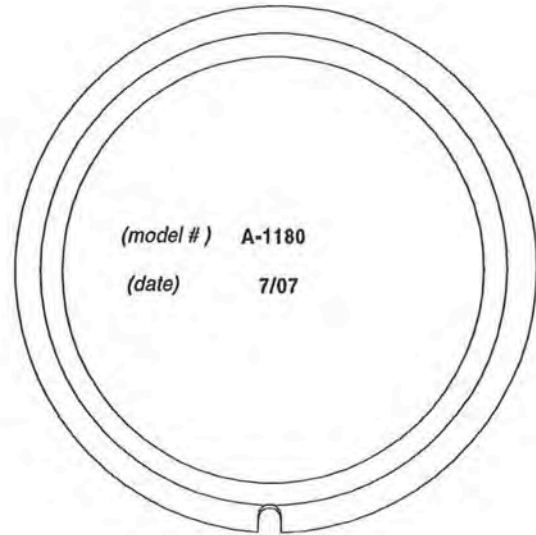
# A-1180

with universal hole



SOUTH JORDAN  
U T A H

## Water Manhole Cover (Platen-bottom cover)



COVER EXCEEDS A COMPRESSION TEST OF UP TO 50,000 LBS.

**CAST IRON** conforms to  
ASTM A-48-93 Class 35B  
Meets H-20 Wheel Loading

**D&L model No. A-1180**

Made in Moses Lake, WA. USA with universal hole

**D&L Foundry & Supply**

CA Sales: (707) 557-4525 Fax: (707) 557-4655  
UT Sales: (801) 785-5015 Fax: (801) 785-0835  
WA Sales: (509) 765-7952 Fax: (509) 765-8124

Designation:

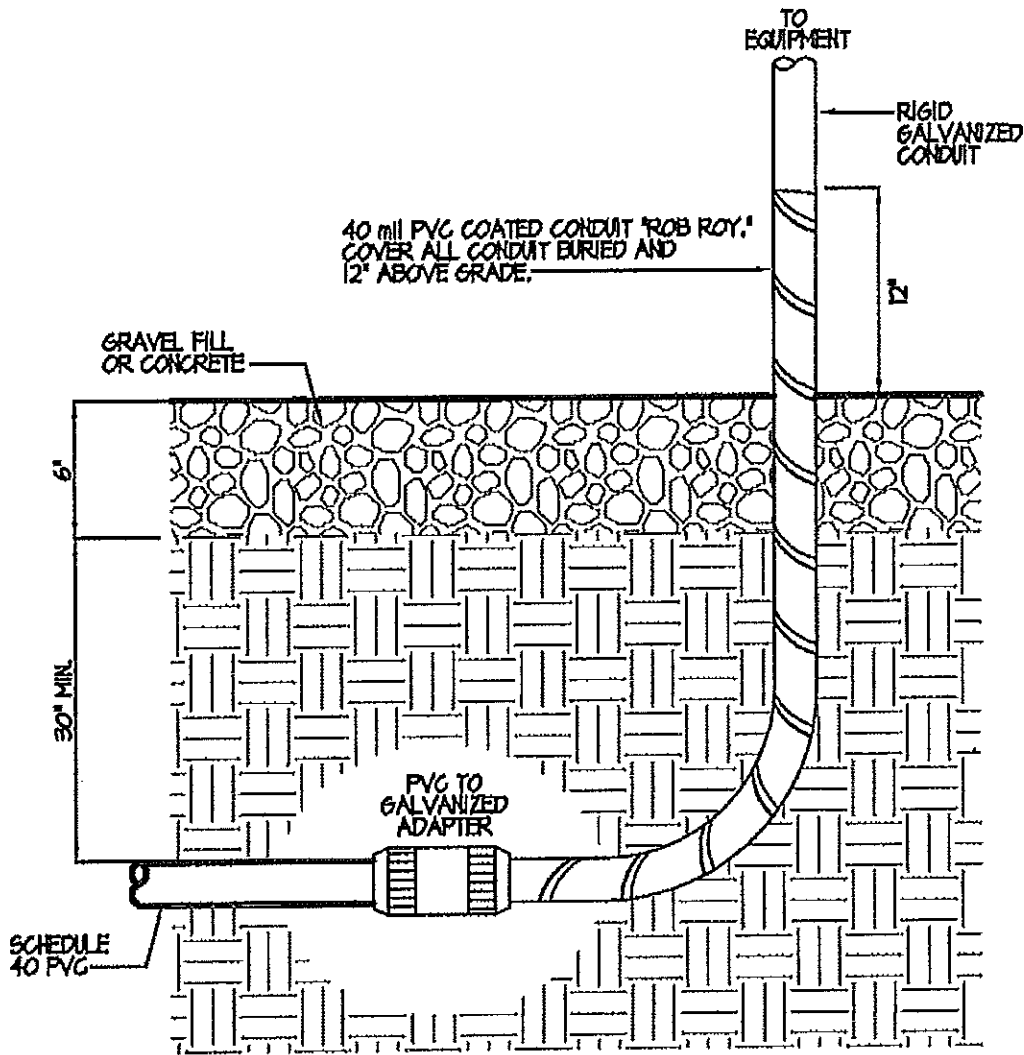
A-1180

Date:

July 2007

Prepared by: Jesse Walter

D&L Foundry & Supply Inc. (not to scale)

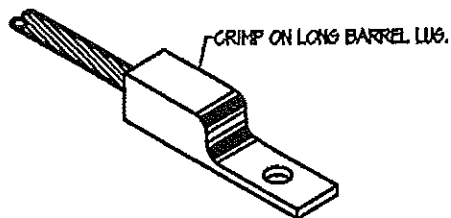


## CONDUIT TERMINATION UNDER EQUIPMENT

SCALE: NONE

8

E-2

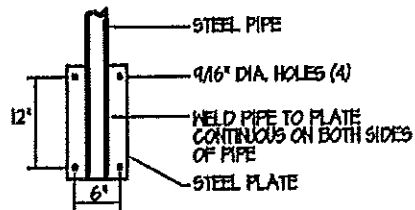


## BONDING LUG

SCALE: NONE

4

E-2

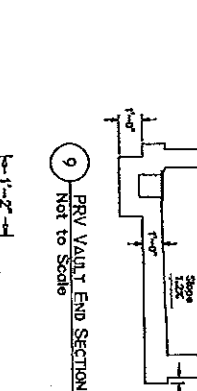
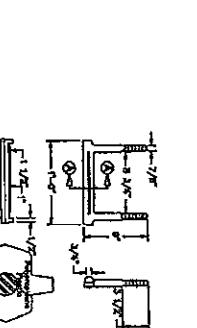
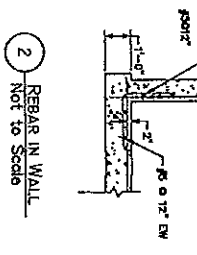
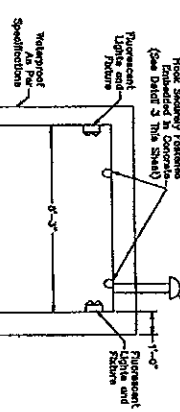
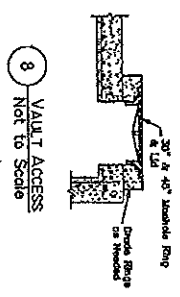
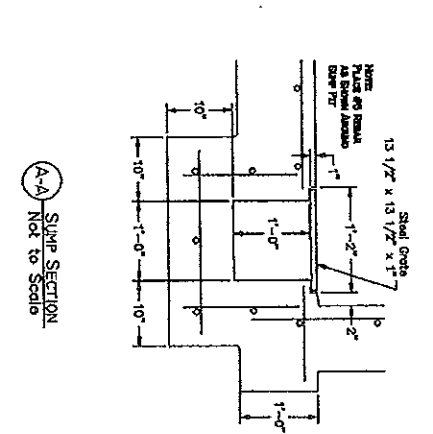
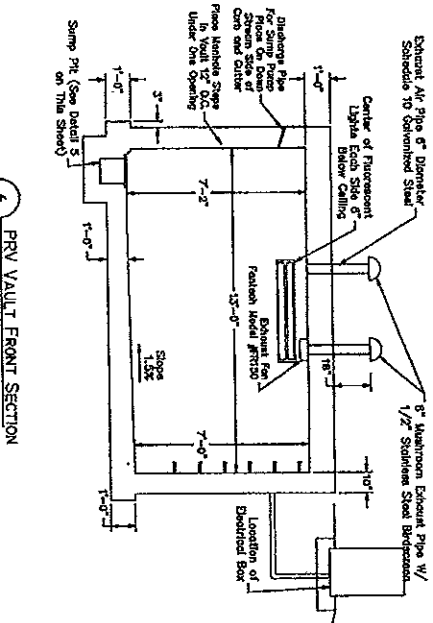
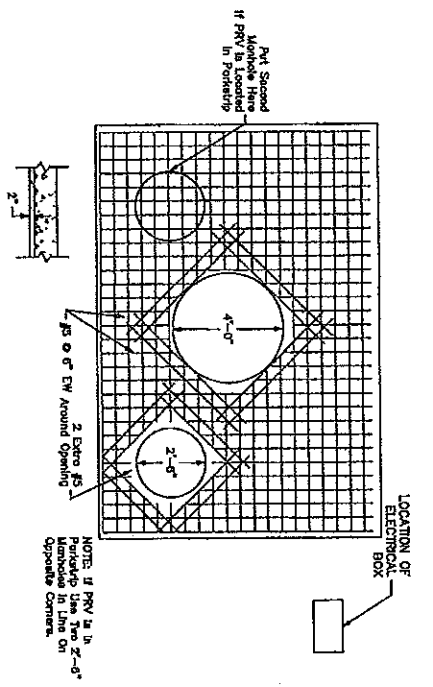


## MAST ANCHOR DETAIL

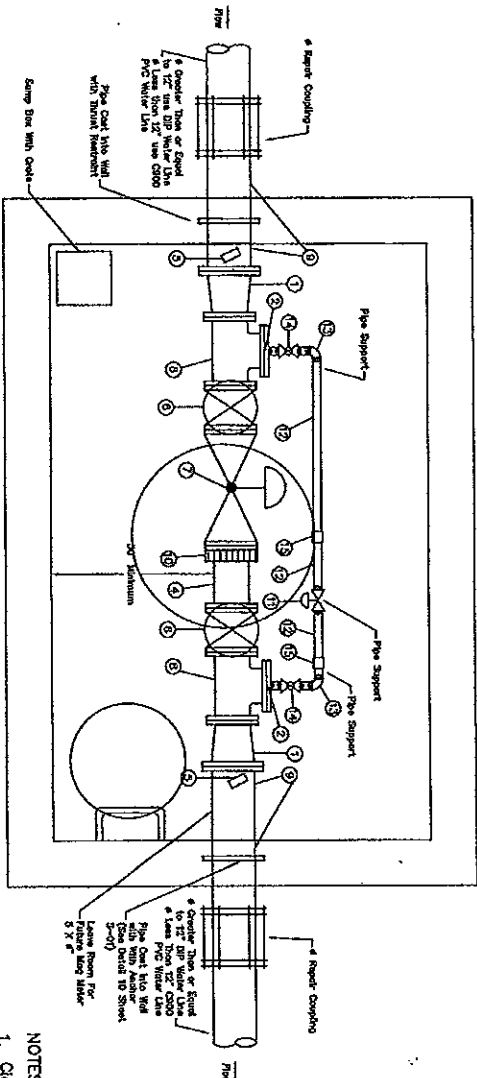
SCALE: NONE

1

E-2



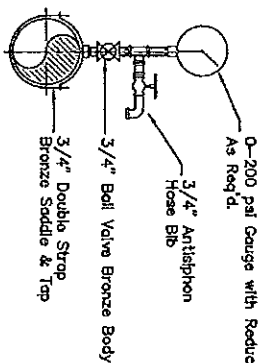
SOUTH JORDAN CITY		PRV VAULT DETAILS	
SIZE	10" OR SMALLER	DWG. NO.	REV
SCALE		SHEET	1/3



Top View


## PRESSURE REDUCING VALVE INSTALLATION

- NOTES:
1. Clay 90-01 Epoxy Coated with Valve Position Indicator X 101.
  2. Pipe or PRV Stands are Required Under All PRVs, All Tees and All Reducers. Also in Locations Shown. Stands Shall Be "Standard Pipe Supports" or on Approved Equot. (See Detail on Sheet DT-06)
  3. Pressure Gauge Shall Be McDaniel or Approved Equot.

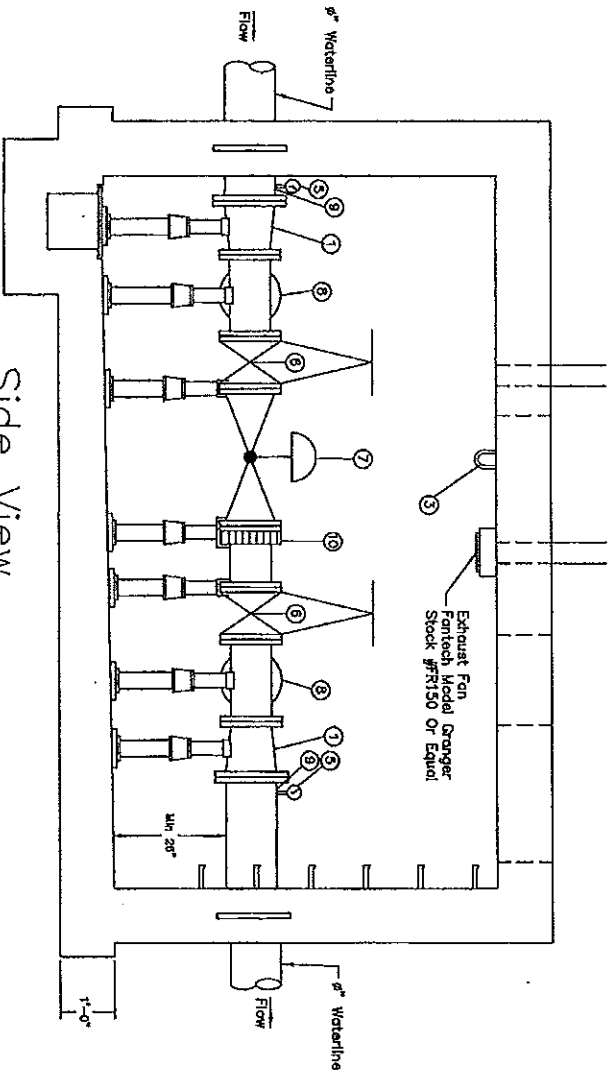


11 PRESSURE GAUGE ASSEMBLY  
Not to Scale

- 1 6" x 8" DI Reducer & Stand for PRV
- 2 8" Blind Flange w/ 2 1/2" Female Top
- 3 8" Epoxy Coated Steel Spool, fig x fig
- 4 0-200 psi Liquid Filled Pressure Gage (See Detail 11)
- 5 8" Gate Valve w/ handwheel & Stand, fig x fig
- 6 8" Pressure Reducing Valves & Stands (See Notes)
- 7 8" DI Tee & Stand, fig x fig x fig
- 8 8" DI Pipe, fig x PE
- 9 6" Flange Adaptor Coupling
- 10 2 1/2" Pressure Reducing Valve & Support, See Note 1
- 11 2 1/2" GI Pipe, MPT x MPT
- 12 2 1/2" GI 90° Elbow, FPT x FPT
- 13 2 1/2" FPT Ball Valve
- 14 2 1/2" Union Coupling

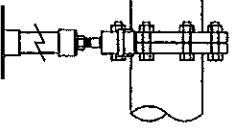
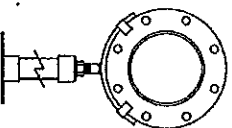
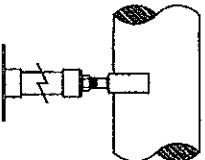
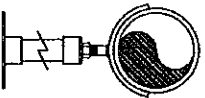
 <p><b>SOUTH JORDAN</b> City of South Jordan, Utah</p>		<p><b>SOUTH JORDAN CITY</b> <b>PRV VAULT DETAILS</b></p>	
SIZE	DWG NO.	REV	
10" OR SMALLER			
SCALE	SHEET 2/3		





Side View

## PRESSURE REDUCING VALVE INSTALLATION



12

STANDON MODEL S92  
PIPE SUPPORT DETAIL

Not to Scale

13

STANDON MODEL S96  
FLANGE SADDLE SUPPORT DETAIL

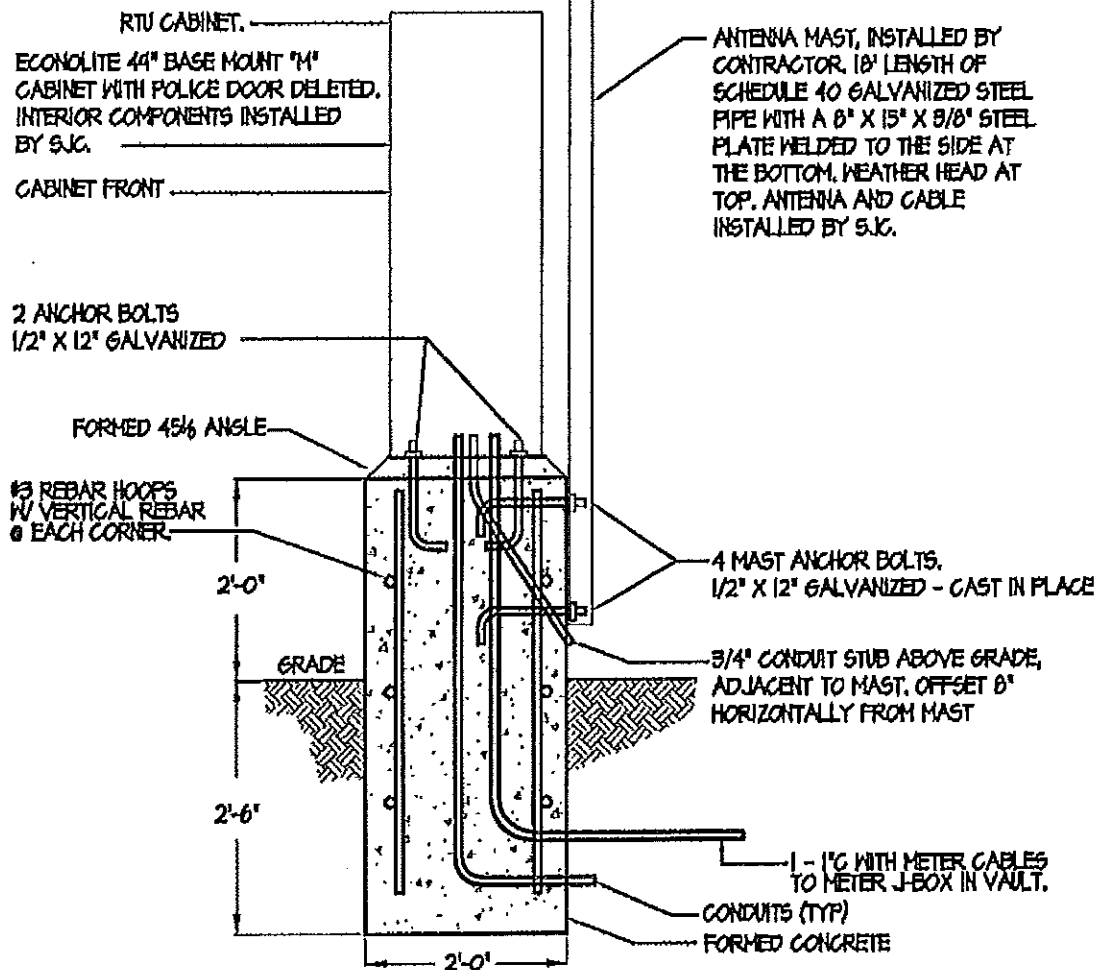
Not to Scale

1. 8" x 8" DI Reducer & Stands for PRV
2. Hook (2 typ.) One Over PRV (See Detail 3 on Sheet S-01)
3. Exhaust Fan (Fonitex Model Ganger Stock #FR150 or Equal)
4. 8" Epoxy Coated Steel Spool, flg x flg
5. 0-200 psi Liquid Filled Pressure Gage (see Detail 11)
6. Gate Valve w/ handwheel & Stand, flg x flg
7. Pressure Reducing Valves & Stands (See Notes)
8. 8" DI Tee & Stand, flg x flg x flg
9. 8" DI Pipe, flg x PE For PRV
10. Flange Adapter Coupling

### NOTES:

1. Clay 90-01 Epoxy Coated With Valve Position Indicator X 101.
2. Place Standon Model S92 Pipe Saddle Supports or Approved Equal Under all Tees.
3. Place Standon Model S96 or S89 Flange Saddle Supports or Approved Equal Under all PRVs.
4. Place Standon Model S96 Flanged Saddle Supports or Approved Equal Under all Valves.
5. Pressure Gage Shall Be McDaniel or Approved Equal.
6. See Sheet S-01 for Location of Exhaust Fan and Lights.

SOUTH JORDAN CITY			
PRV VAULT DETAILS			
SIZE	DWG NO.	REV	
10" OR SMALLER			
SCALE	SHEET 3/3		



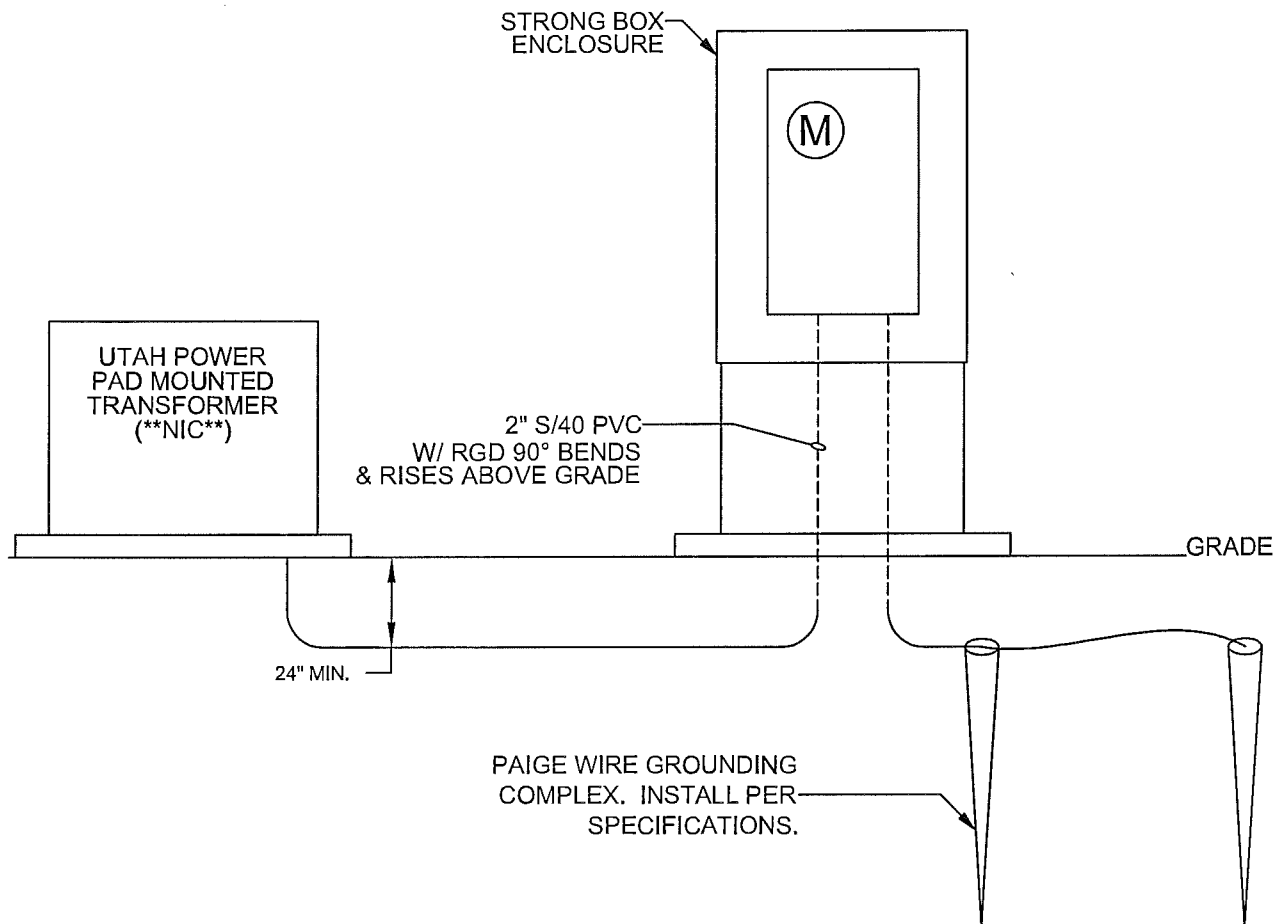
## SJC RTU PEDESTAL ELEVATION

SCALE: NONE

9

E-2

# **LANDSCAPE AND IRRIGATION**



# IRRIGATION DETAIL IRR-01 LINE DRAWING TRANSFORMER ENCLOSURE

version: 01, revision: 00, date: 8/2006



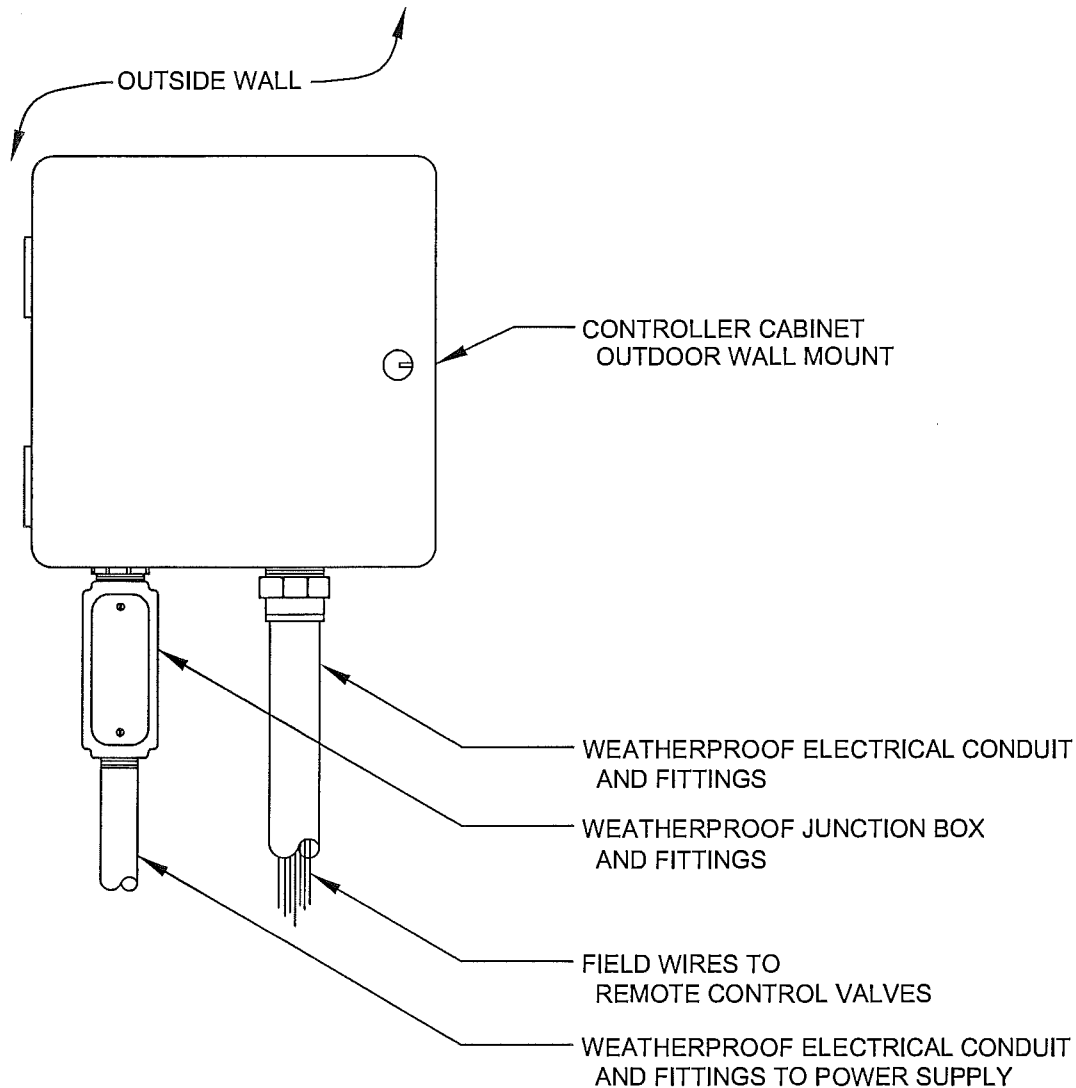
DALE WINCHESTER &  
 ASSOCIATES  
 2215 East Pincrest Lane  
 Sandy UT 84092  
 801 571-6060

SOUTH JORDAN CITY  
 PARKS DEPARTMENT  
 1600 West Towne Center Drive  
 South Jordan, Utah 84095  
 (801) 254-3742



SOUTH JORDAN

## SOUTH JORDAN



**\*\*NOTE\*\*** PVC SHALL NOT BE USED IN WIRING CONNECTIONS OR CONDUIT

## IRRIGATION DETAIL IRR-03 LINE DRAWING TRANSFORMER ENCLOSURE

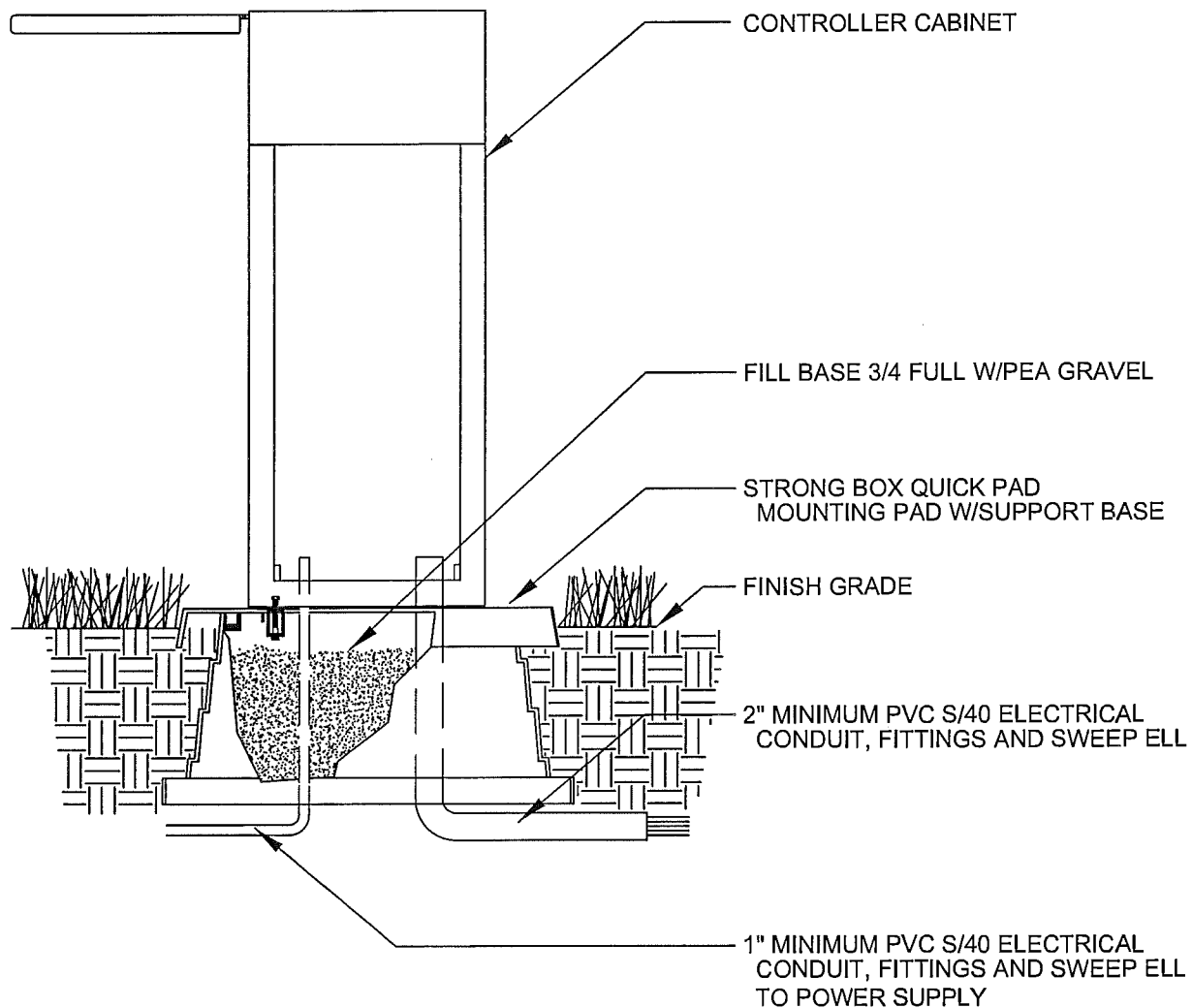
version: 01, revision: 00, date: 8/2006



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NOTE: INSTALL PAIGE WIRE GROUNDING GRID PER MFG. REQUIREMENTS

## IRRIGATION DETAIL IRR-04 PEDESTAL MOUNT CONTROLLER

version: 01, revision: 00, date: 8/2006

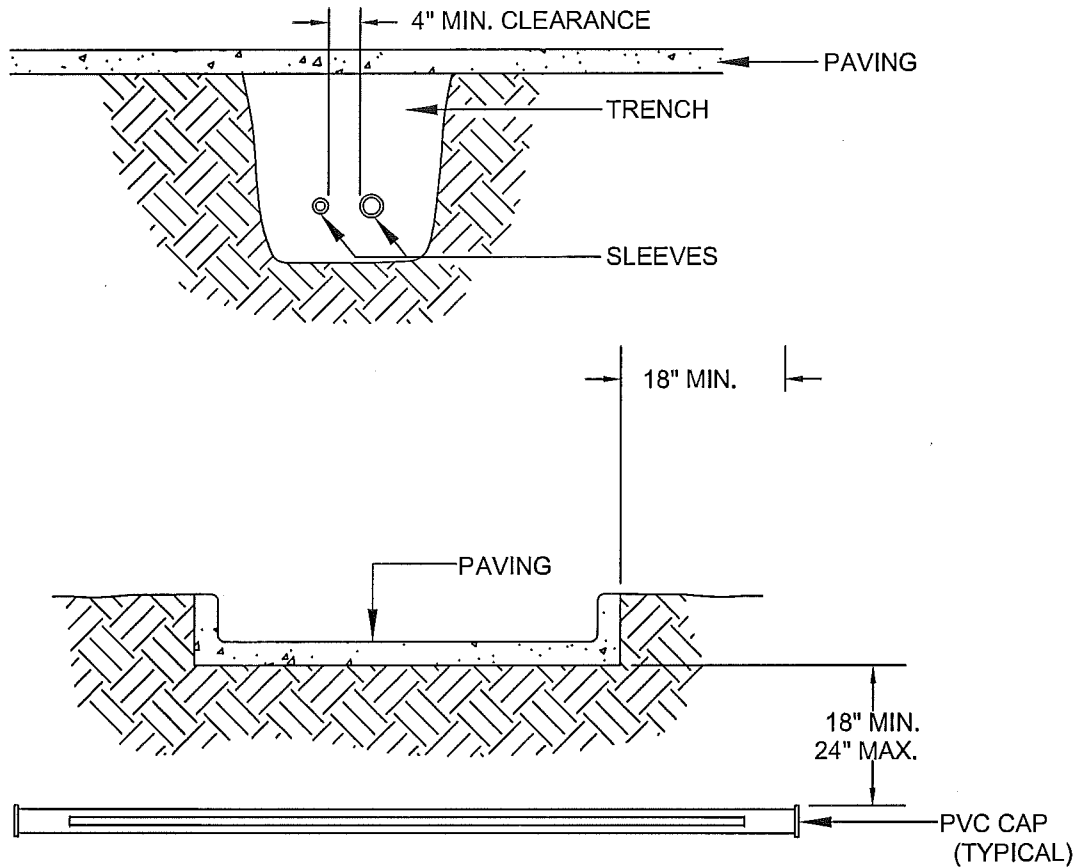


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NOTES:

1. SLEEVES UNDER ROADS TO BE DUCTILE IRON IF CODE DIRECTS, OTHERWISE PVC.
2. ALL JOINTS ( EXCEPT DUCTILE IRON) TO BE SOLVENT WELDED AND WATERTIGHT.
3. WHERE THERE IS MORE THAN ONE SLEEVE, PLACE THEM PARALLEL IN TRENCH.  
DO NOT PLACE ON TOP OF EACH OTHER.
4. MECHANICALLY TAMP TO 95% PROCTOR.

## IRRIGATION DETAIL IRR-05 SLEEVING

version: 01, revision: 00, date: 8/2006



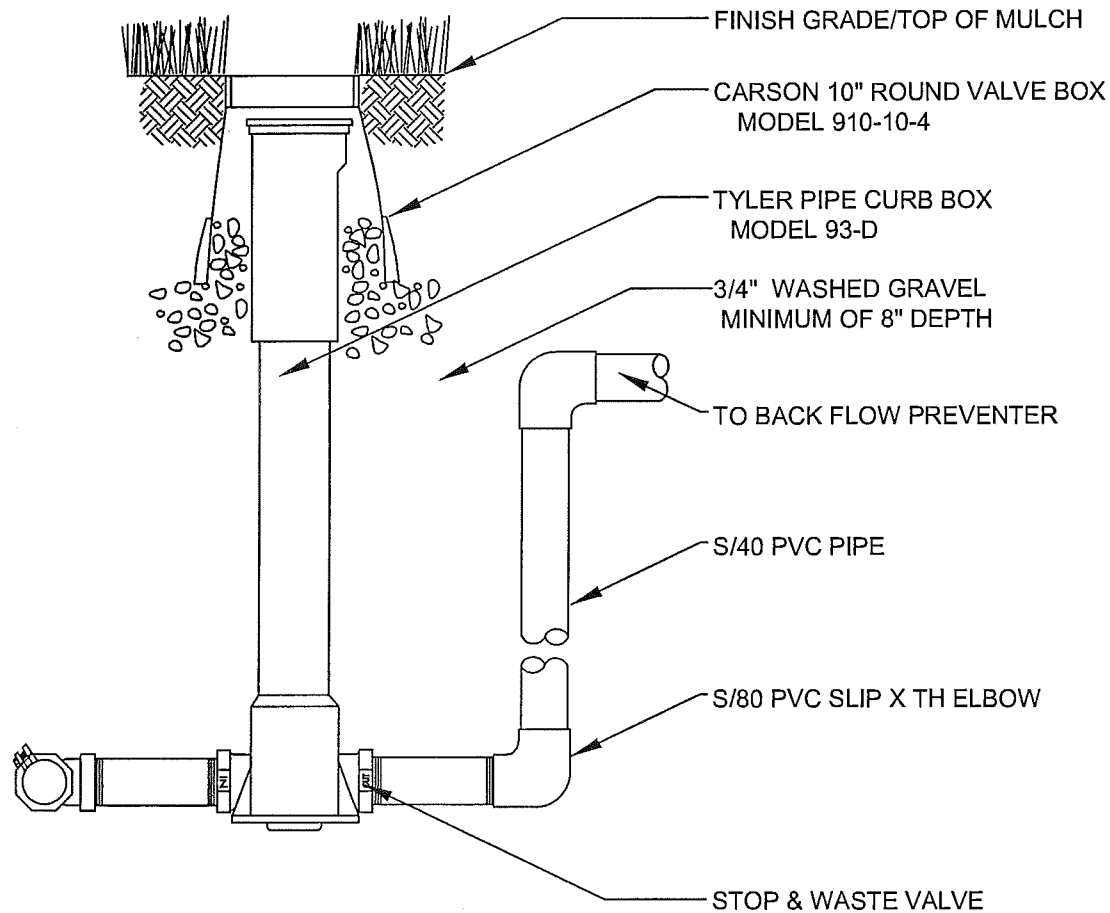
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SOUTH JORDAN





1. USE MUELLER ORISEAL MODEL H-102-88 VALVE WITH THREADED TOP.  
HARD PIPE TO SURFACE WITH PIPE AND FITTINGS AS NEEDED.
2. USE USE PACK JOINT TEE, SADDLE, OR PACK JOINT F. A. TO CONNECT ON TO SUPPLY LINE  
USE MINIMUM 6" BRASS NIPPLES ON EITHER SIDE OF STOP & WASTE VALVE

## IRRIGATION DETAIL IRR-06

### STOP & WASTE VALVE

version: 01, revision: 00, date: 8/2006

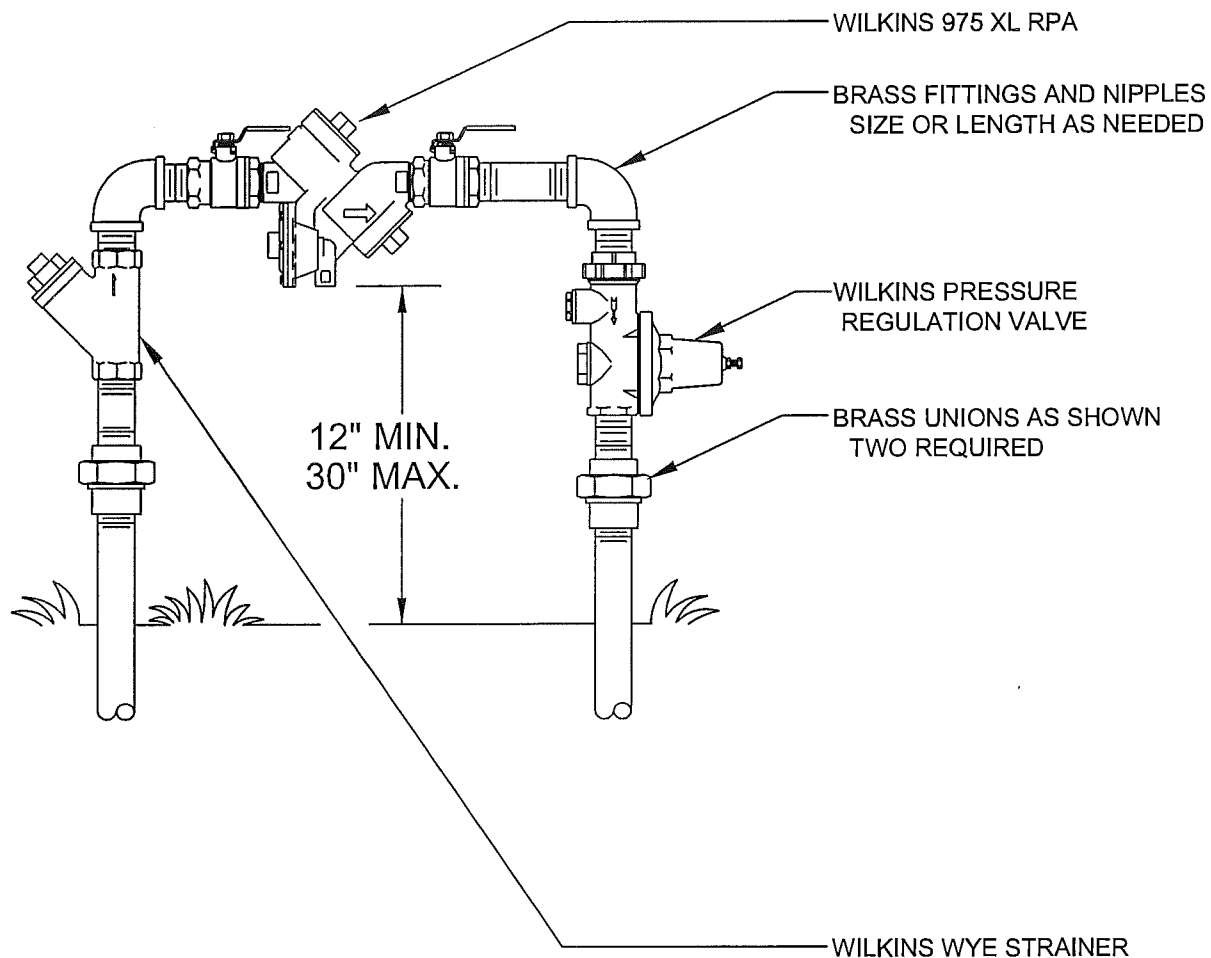


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SOUTH JORDAN



1. LOCATE BACKFLOW DEVICE IN INCONSPICUOUS AREA IF POSSIBLE.
2. ALL PIPE, FITTINGS AND COMPONENTS SHALL BE BRASS.

## IRRIGATION DETAIL IRR-07 BACKFLOW RPA

version: 01, revision: 00, date: 8/2006

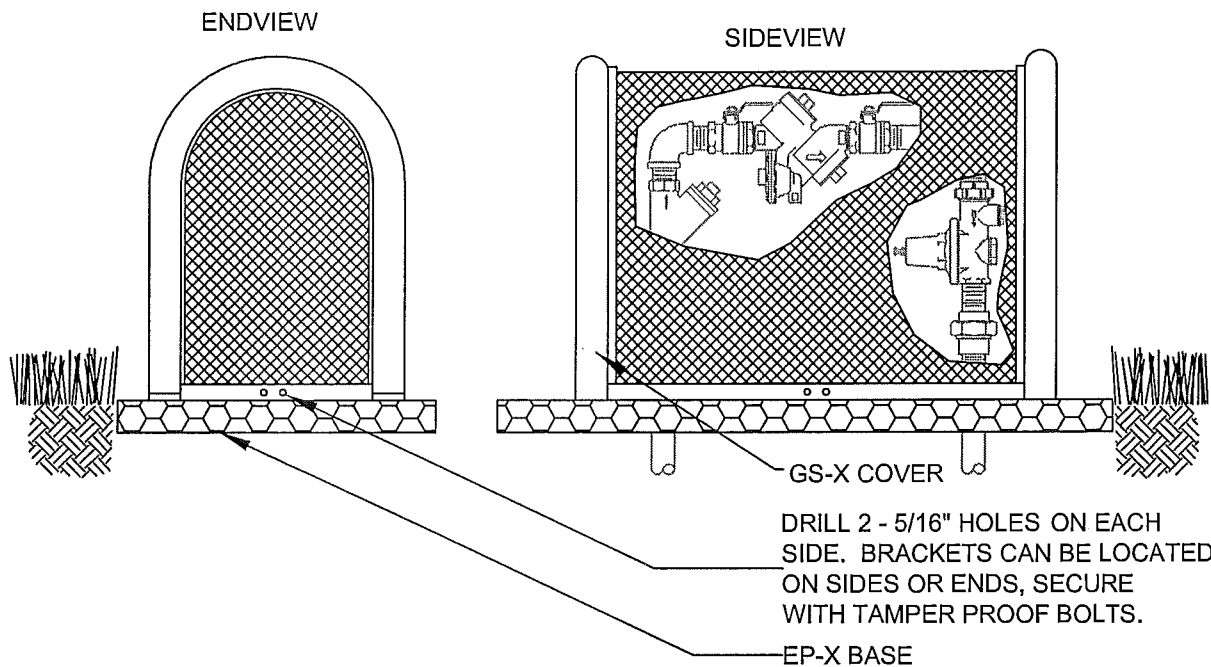


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1. USE BPGI BRAND 'GUARDSHACK', MODEL GS-X, WITH FOREST GREEN POWDER COATING. INSTALL TO MANUFACTURERS RECOMMENDATION.
2. USE BPGI BRAND 'ENCPAD' EP-X, PLASTIC BASE WITH 'PADLOK' ANCHOR HARDWARE. INSTALL TO MANUFACTURERS RECOMMENDATION.

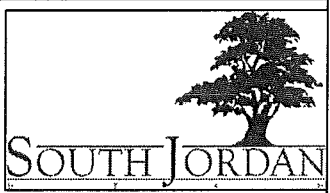
## IRRIGATION DETAIL IRR-08 BACKFLOW COVER

version: 01, revision: 00, date: 8/2006



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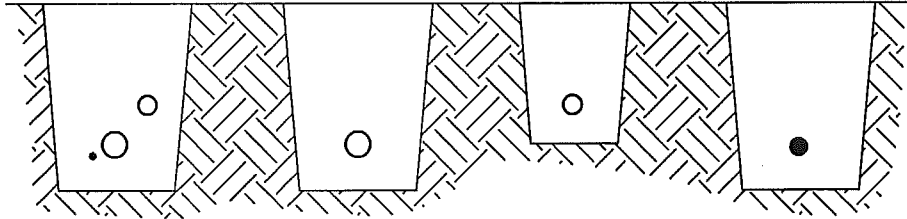
## SECTION VIEW

MAIN, LATERAL,  
AND WIRING  
SAME TRENCH

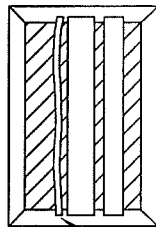
MAIN ONLY

LATERAL ONLY

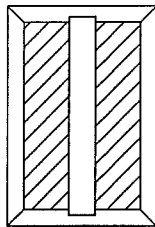
WIRING ONLY  
IN CONDUIT



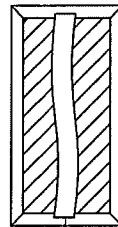
## PLAN VIEW



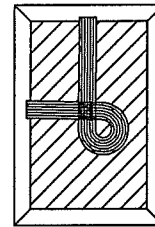
RUN WIRING BENEATH  
AND BESIDE MAINLINE.  
TAPE AND BUNDLE AT  
10' INTERVALS.



ALL SOLVENT WELD  
PLASTIC PIPING TO  
BE SNAKED IN  
TRENCH AS SHOWN.



WIRE W/O CONDUIT



TIE A 24" LOOP IN  
ALL WIRING AT CHANGES  
OF DIRECTION. UNTIE AFTER ALL  
CONNECTIONS ARE MADE.

### NOTES:

1. SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE WITHIN.
2. SLEEVING SIZES 2" THROUGH 4" SHALL BE S/40 SOLVENT WELD.  
6" AND ABOVE SHALL BE CL 200 GASKETED.
3. PIPE AND WIRE SHALL BE PLACED IN SEPARATE SLEEVES.
4. MAIN LINE SHALL HAVE 18" MIN. COVER, LATERAL LINE SHALL HAVE 12" MIN. COVER.

## IRRIGATION DETAIL IRR-09 PIPE & WIRE TRENCH

version: 01, revision: 00, date: 8/2006

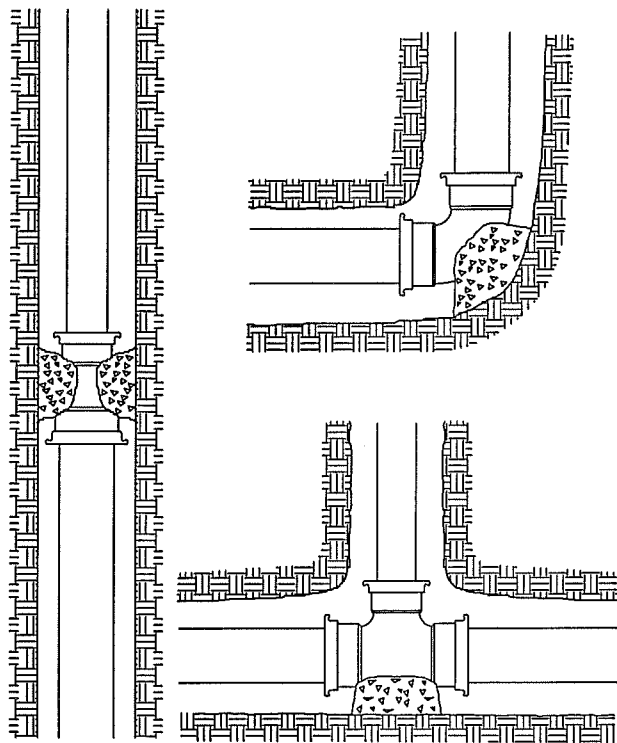


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SOUTH JORDAN



**TABLE 1**

SIZE	TEES PLUGS	90° BEND	45° BEND	22.5° BEND
2"	363	513	259	141
2 1/2"	531	751	379	207
3"	788	1,114	562	307
4"	1,302	1,841	928	508
6"	2,822	3,990	2,012	1,101
8"	4,783	6,763	3,410	1,865
10"	7,430	10,506	5,297	2,898
12"	10,452	14,778	7,452	4,076

FOR REDUCERS, SUBTRACT SMALL OPENING  
PLUG THRUST FROM LARGE OPENING PLUG  
THRUST TO CALCULATE THRUST / 100.

**TABLE 2**

SOIL TYPE	SAFE BEARING LOAD LBS PER SQ FT*
SOFT CLAY	1,000
SAND	2,000
SAND & GRAVEL	3,000
SAND & GRAVEL CEMENTED W/CLAY	4,000
HARD PAN	10,000

\*THE ABOVE BEARING LOAD DATA WAS  
PROVIDED BY HARCO MFG. WHEN IN DOUBT,  
THE CONTRACTOR SHALL CONTACT A SOILS  
ENGINEER AND CONTRACT FOR A SOILS  
BEARING, OR OTHER NECESSARY TESTS.

**NOTES:**

1. PROVIDE THRUST BLOCKS AT ALL CHANGES IN SIZE OR DIRECTION. BENDS, REDUCERS, PLUGS AND THE OPPOSITE SIDE OF TEE BRANCHES ALL REQUIRE THRUST BLOCKS.
2. THE SIZE OF THE THRUST BLOCK IS DETERMINED BY THE WORKING PRESSURE, THE SIZE AND TYPE OF FITTING, AND SOIL CONDITIONS AT THE JOB SITE. TO CALCULATE THE AREA OF CONTACT WITH THE SOIL, FOLLOW THESE STEPS:  
CALCULATE THE THRUST BY SELECTING THRUST / 100 BY SIZE AND TYPE OF FITTING FROM TABLE #1 AND MULTIPLYING THRUST / 100 BY SYSTEM PRESSURE / BY 100.
3. DIVIDE THE TOTAL THRUST BY BEARING CAPACITY OF THE SOIL IN EXCAVATION, (FROM TABLE #2 TO DETERMINE THE AREA IN SQUARE FEET OF THRUST BLOCK REQUIRED TO BE IN CONTACT WITH THE UNDISTURBED SOIL.

## IRRIGATION DETAIL IRR-10 THRUST BLOCKING

version: 01, revision: 00, date: 8/2006

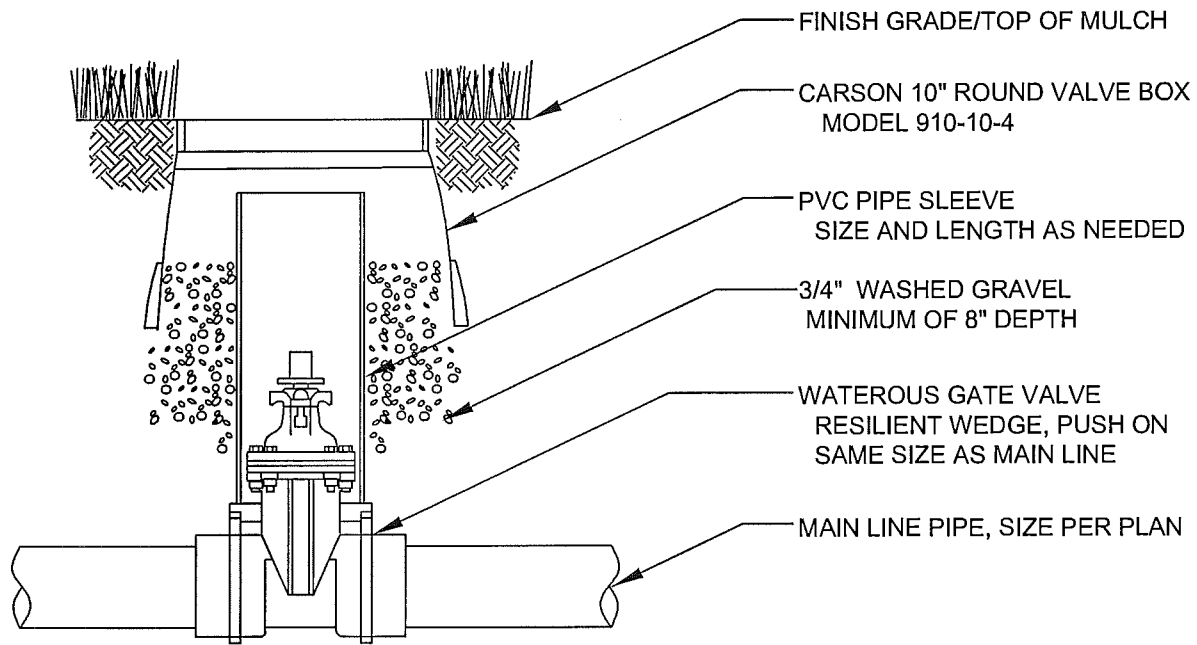


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NOTES:

1. TO BE USED ON MAIN LINE PIPE 3" AND LARGER.
2. VALVE SHALL HAVE 2" SQUARE OPERATING NUT.

## IRRIGATION DETAIL IRR-11 LARGE GATE VALVE

version: 01, revision: 00, date: 8/2006

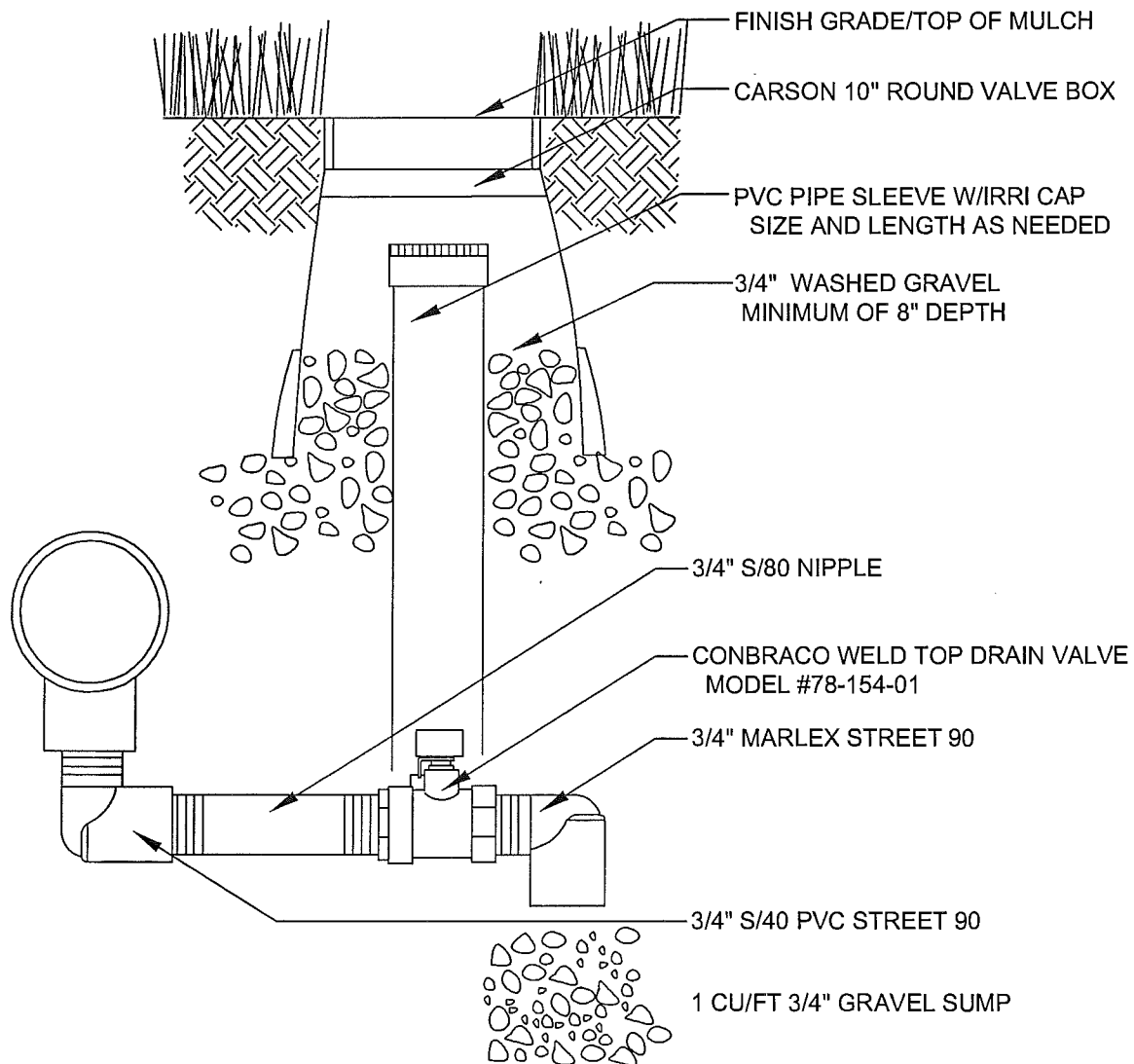


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## IRRIGATION DETAIL IRR-12 MANUAL DRAIN

version: 01, revision: 00, date: 8/2006

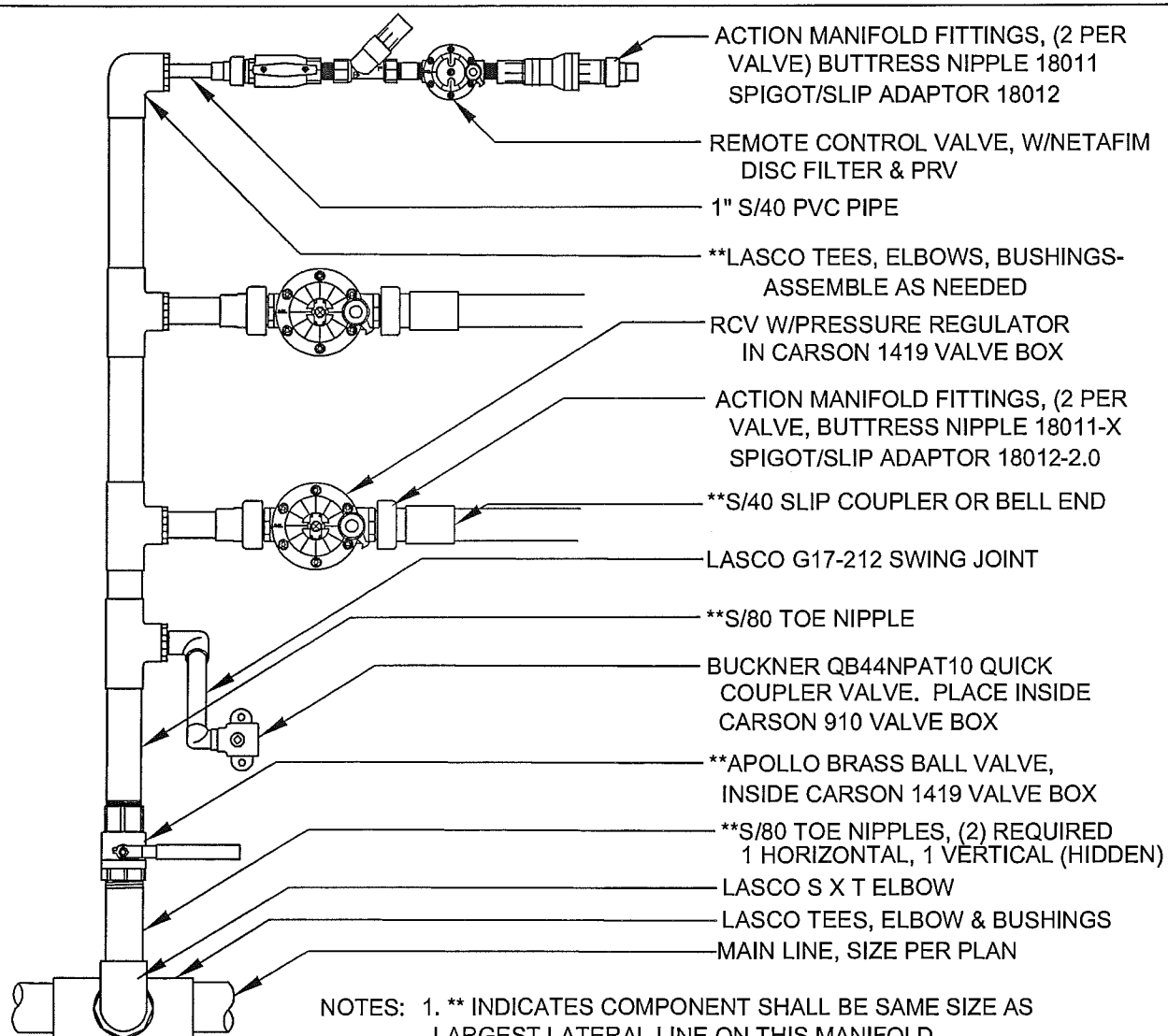


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- NOTES: 1. \*\* INDICATES COMPONENT SHALL BE SAME SIZE AS LARGEST LATERAL LINE ON THIS MANIFOLD.  
2. DOWNSTREAM OF BALL VALVE: MANIFOLD FITTINGS SHALL BE S/80, PVC PIPE SHALL BE S/40.  
3. LAY BALL VALVE ON SIDE. HANDLE VERTICAL IS OFF.

## IRRIGATION DETAIL IRR-13 CONTROL VALVE MANIFOLD SCH-80

version: 01, revision: 00, date: 8/2006



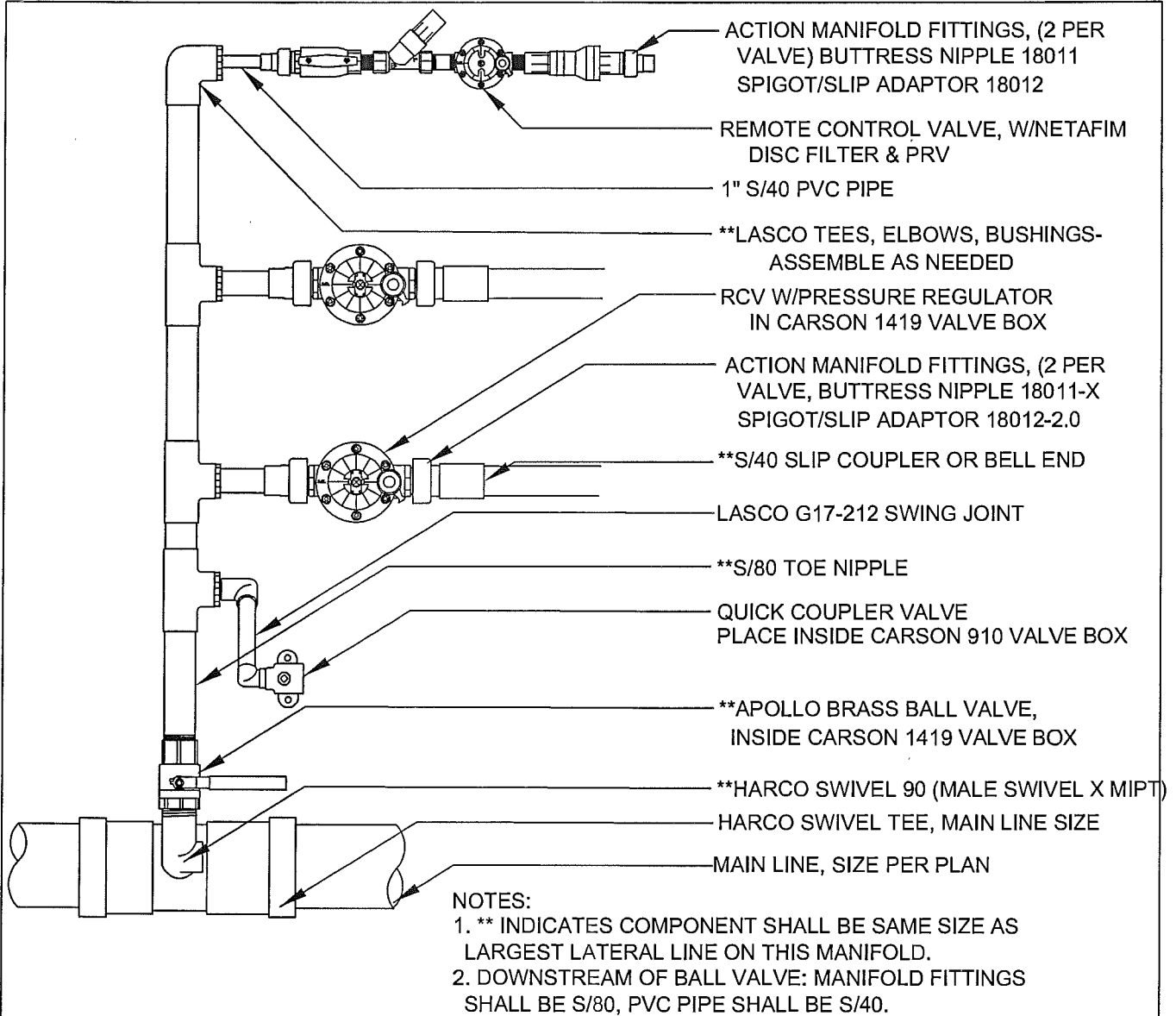
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## IRRIGATION DETAIL IRR-14 CONTROL VALVE MANIFOLD HARCO

version: 01, revision: 00, date: 8/2006

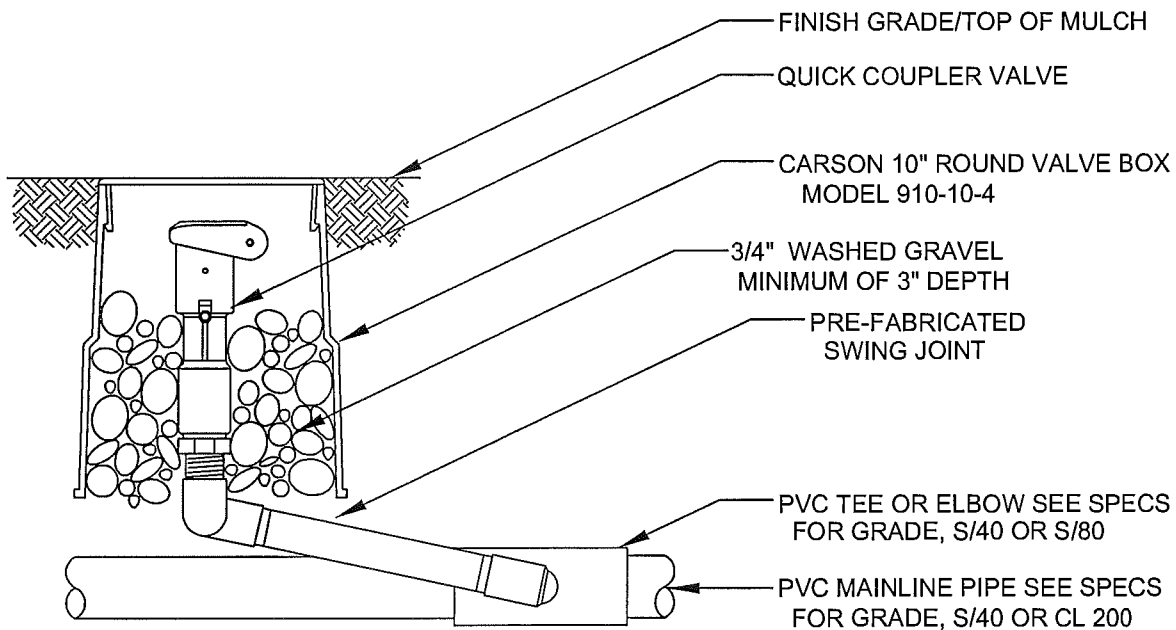


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NOTES:

1. ACME O-RING SEALED THREADS ARE TO BE FINGER TIGHTENED AND THEN BACKED OFF ONE FULL ROTATION PRIOR TO INSTALLATION.
2. SWING JOINT LAY ARM SHALL BE INSTALLED AT ANGLE, BETWEEN 30 AND 45 DEGREES TO THE MAIN LINE PIPE.
3. SWING JOINT SHALL BE PRE-FABRICATED LASCO MODEL G17S-212

## IRRIGATION DETAIL IRR-15

### QUICK COUPLER VALVE

version: 01, revision: 00, date: 8/2006

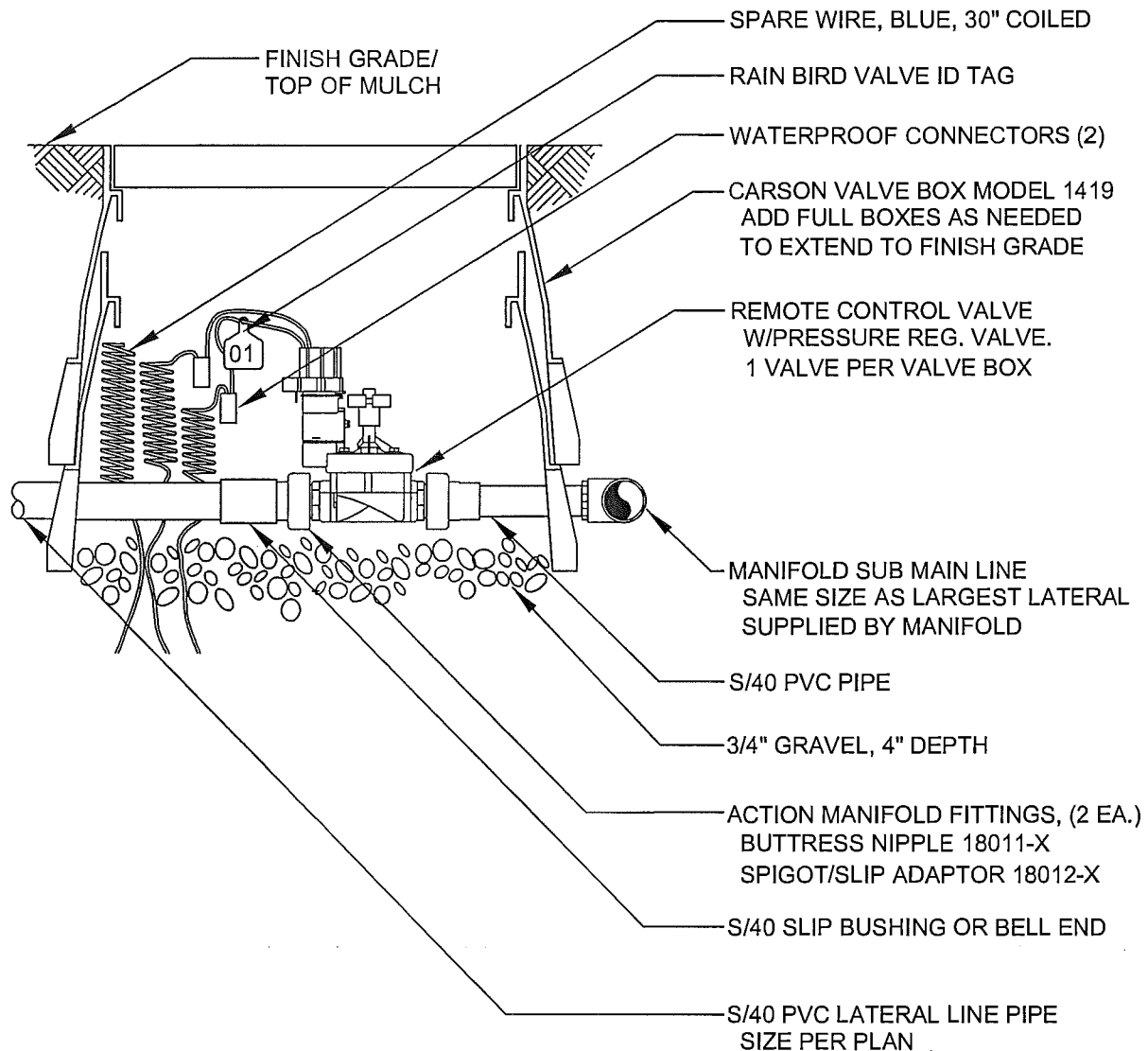


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## IRRIGATION DETAIL IRR-16 REMOTE CONTROL VALVE

version: 01, revision: 00, date: 8/2006

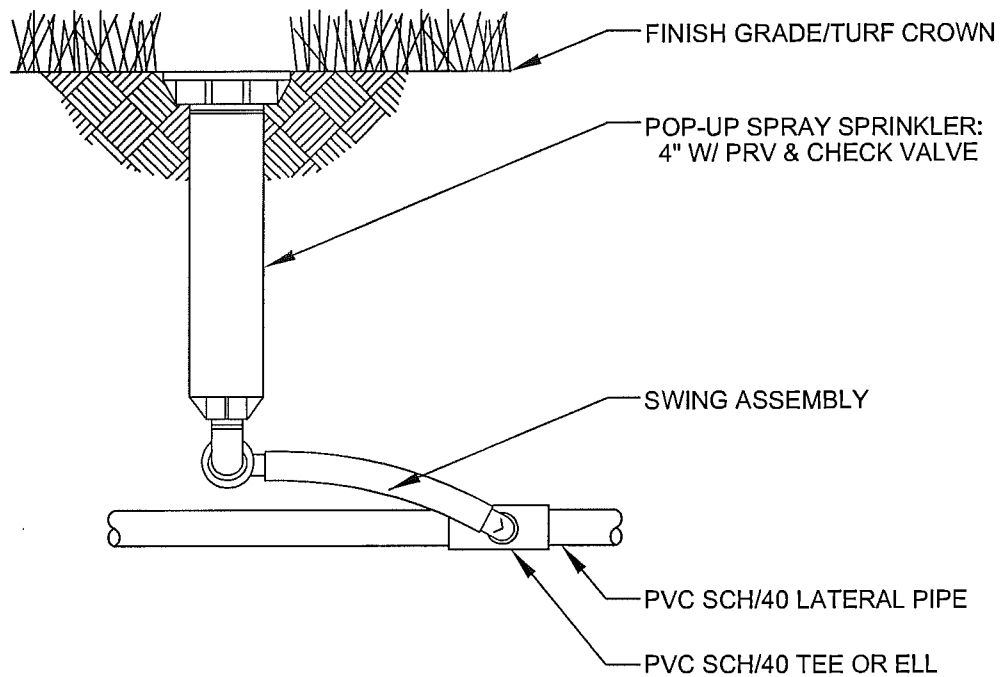


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NOTES:

1. SWING JOINT ASSEMBLY: TWO SPIRAL BARB ELBOWS, 12-24" SWING PIPE, AND ONE 1/2" MARLEX STREET ELBOW.
2. USE FIXED SPRAY NOZZLES WHEREVER POSSIBLE.

## IRRIGATION DETAIL IRR-17

### 4" POP-UP SPRAY HEAD

version: 01, revision: 00, date: 8/2006

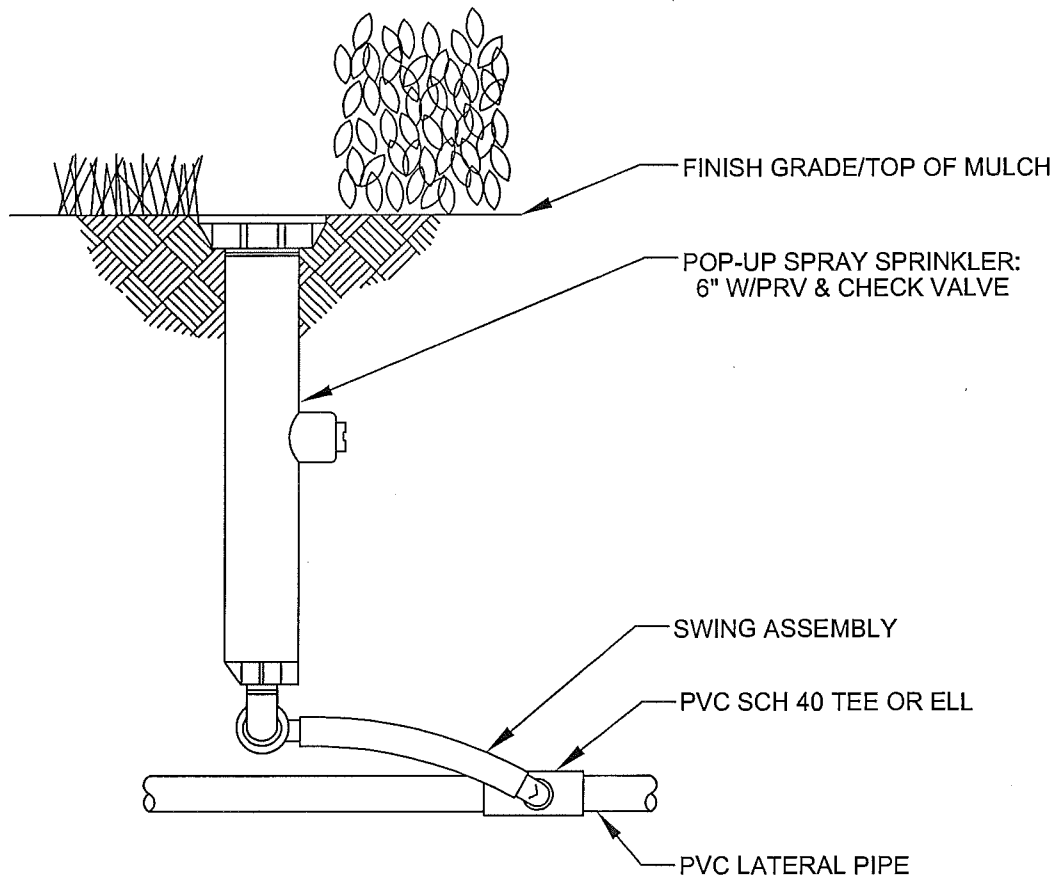


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NOTES:

1. SWING JOINT ASSEMBLY: TWO SPIRAL BARB ELBOWS, 12-24" SWING PIPE, AND ONE 1/2" MARLEX STREET ELBOW.
2. USE FIXED SPRAY NOZZLES WHEREVER POSSIBLE.

## IRRIGATION DETAIL IRR-18 6" POP-UP SPRAY HEAD

version: 01, revision: 00, date: 8/2006

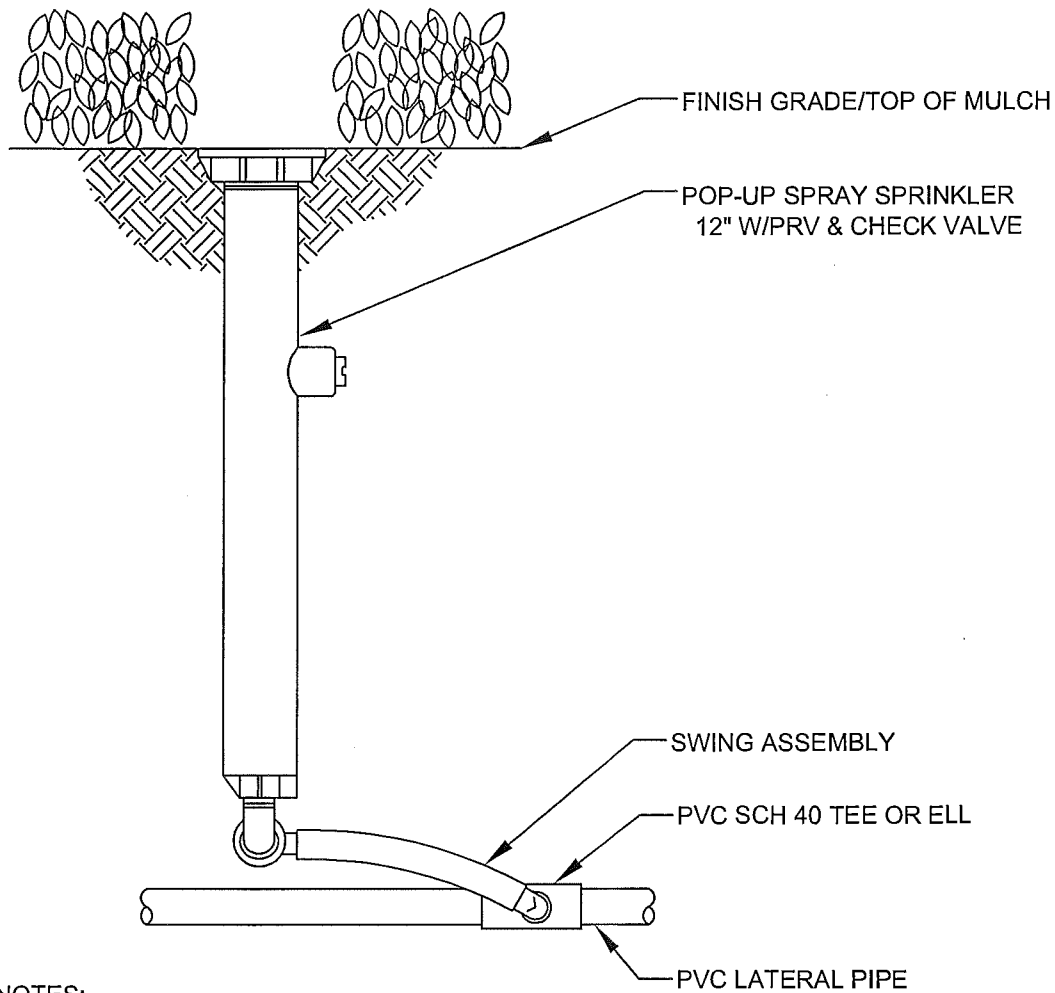


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NOTES:

1. SWING JOINT ASSEMBLY: TWO SPIRAL BARB ELBOWS, 12-24" SWING PIPE, AND ONE 1/2" MARLEX STREET ELBOW.
2. USE FIXED SPRAY NOZZLES WHEREVER POSSIBLE.

## IRRIGATION DETAIL IRR-19 12" POP-UP SPRAY HEAD

version: 01, revision: 00, date: 8/2006

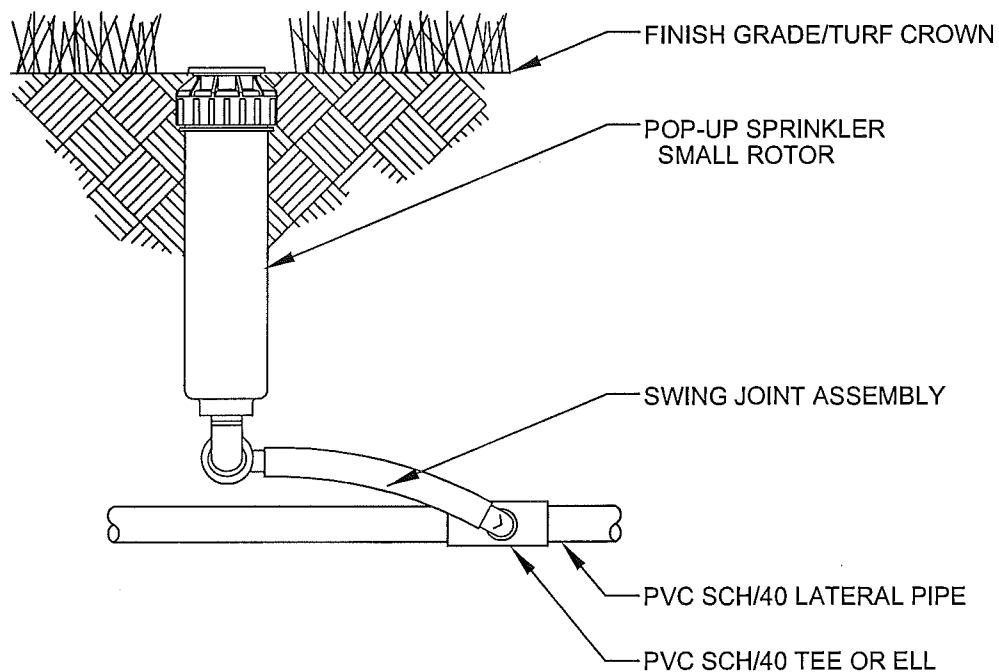


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NOTES:

1. SWING JOINT ASSEMBLY: TWO SPIRAL BARB ELBOWS, SBE-050, 12-24" SWING PIPE, AND ONE 1/2" MARLEX STREET ELBOW.
2. USE NOZZLE SPECIFIED ON PLAN.

## IRRIGATION DETAIL IRR-20 SMALL ROTOR HEAD

version: 01, revision: 00, date: 8/2006

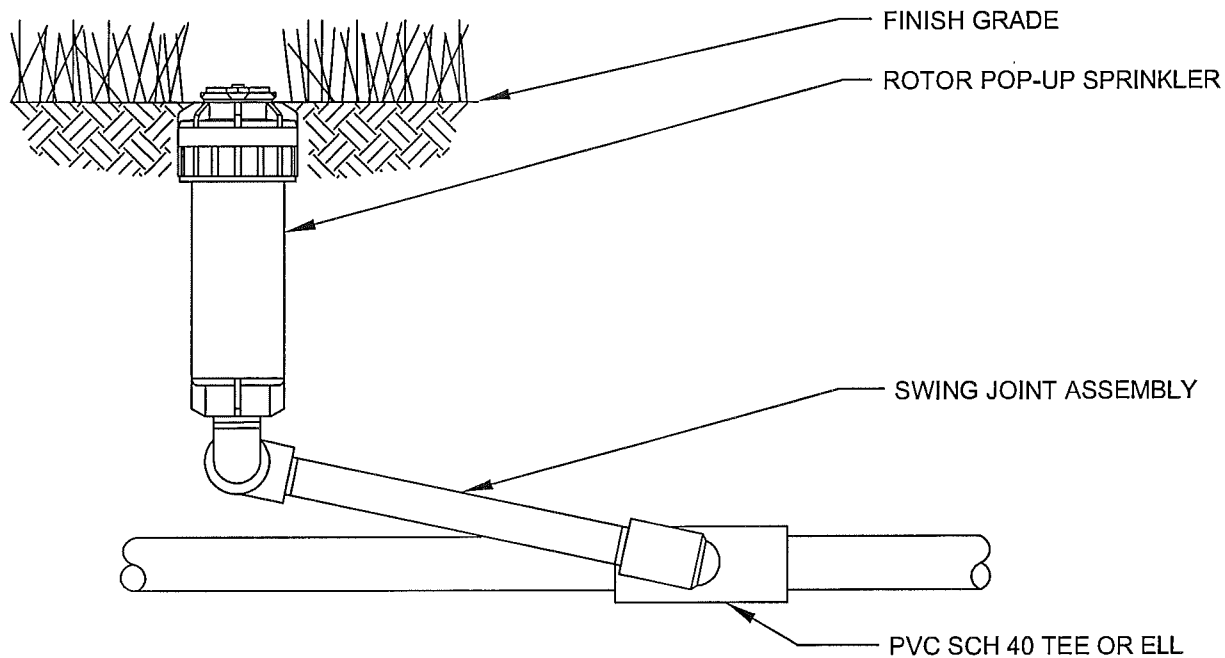


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NOTES:

1. POSITION LAY ARM OF SWING JOINT 30 TO 45 DEGREES FROM LATERAL PIPE.
2. INSTALL NOZZLE AS INDICATED ON PLAN. USE BOTTOM INLET ONLY.
3. FOR SWING JOINT, USE 3 MARLEX STREET ELBOWS AND 1 S/80 12" NIPPLE .

## IRRIGATION DETAIL IRR-21 MEDIUM ROTOR HEAD

version: 01, revision: 00, date: 8/2006



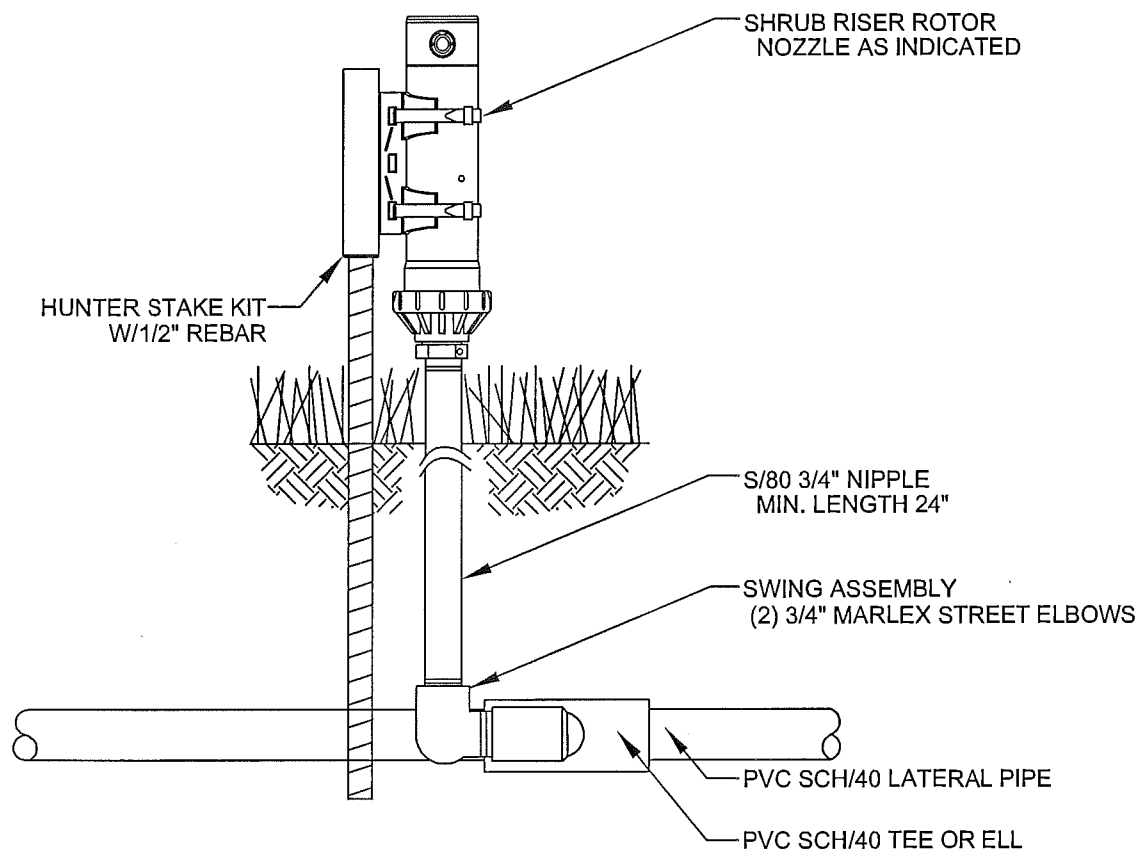
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**NOTES:**

1. INSTALL 1/2" REBAR ROD SUFFICIENT TO PREVENT ROTOR MOVEMENT.
2. INSTALL STAKE KIT AS SHOWN W/CABLE TIES.
3. INSTALL 3/4 X 24 S/80 NIPPLE. EXTEND LENGTH AS NEEDED.

## IRRIGATION DETAIL IRR-22 MEDIUM ROTOR SHRUB RISER

version: 01, revision: 00, date: 8/2006

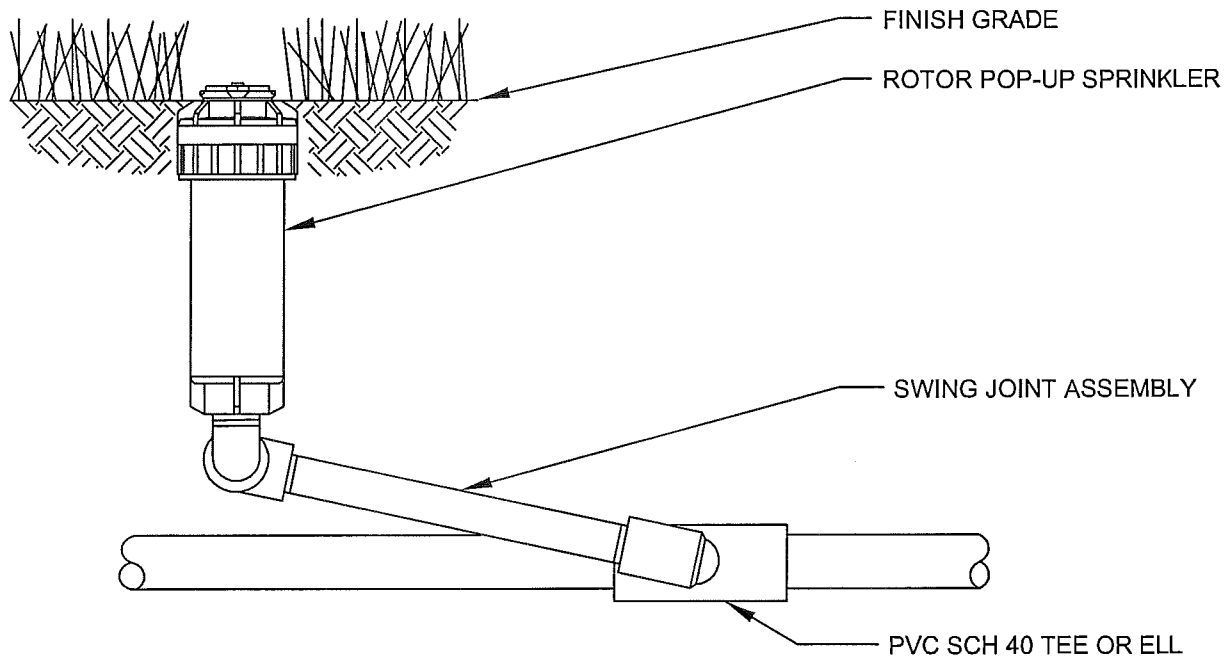


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**NOTES:**

1. POSITION LAY ARM OF SWING JOINT 30 TO 45 DEGREES FROM LATERAL PIPE.
2. INSTALL NOZZLE AS INDICATED ON PLAN. USE BOTTOM INLET ONLY.
3. FOR SWING JOINT, USE MFG PRE-FABRICATED SWING JOINT ASSEMBLY.

## IRRIGATION DETAIL IRR-23 SPORTS TURF HEAD

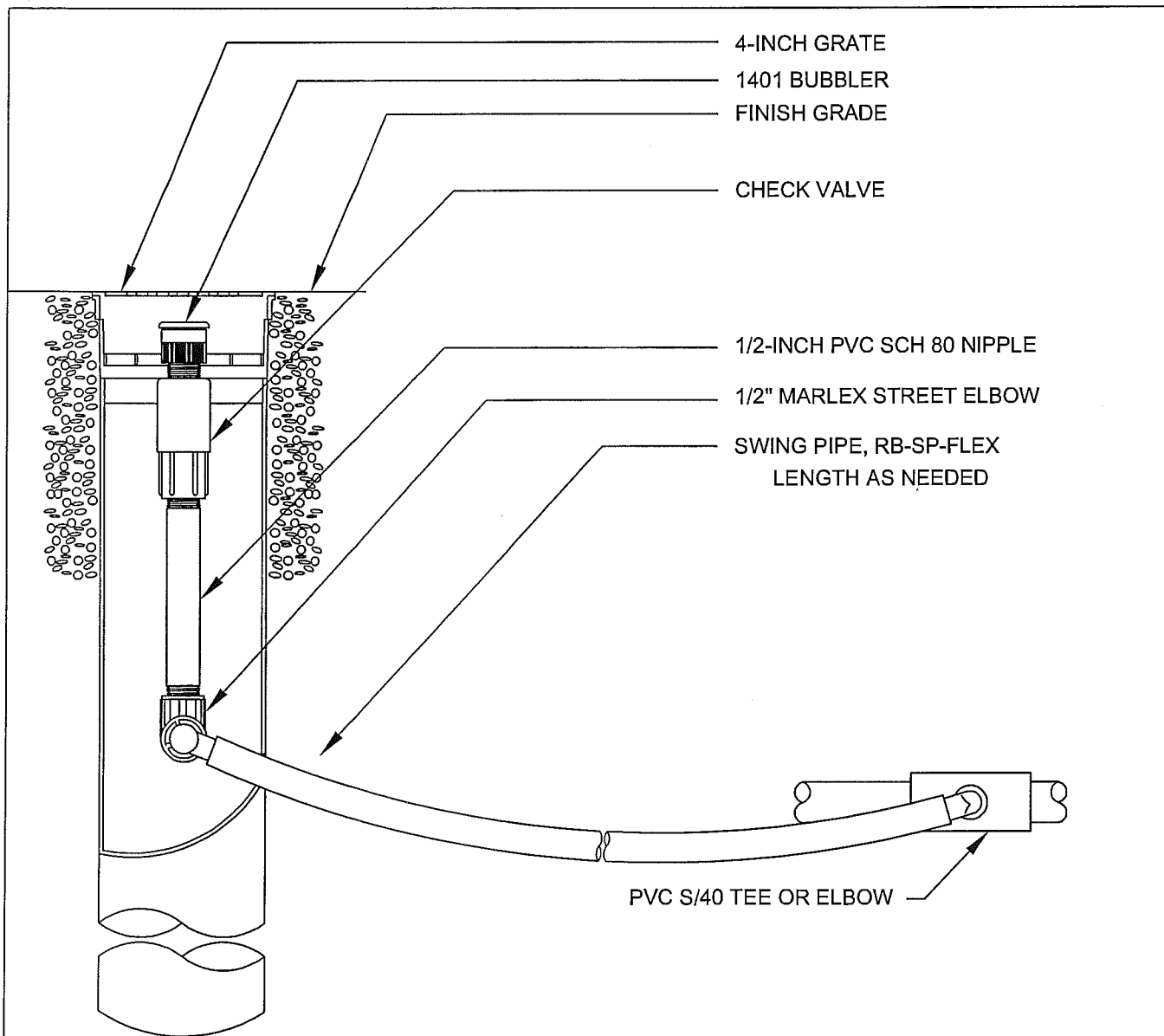
version: 01, revision: 00, date: 8/2006



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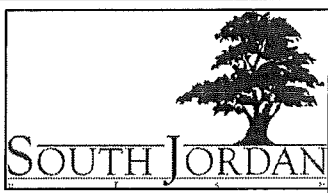
## IRRIGATION DETAIL IRR-24 TREE WATERING SYSTEM

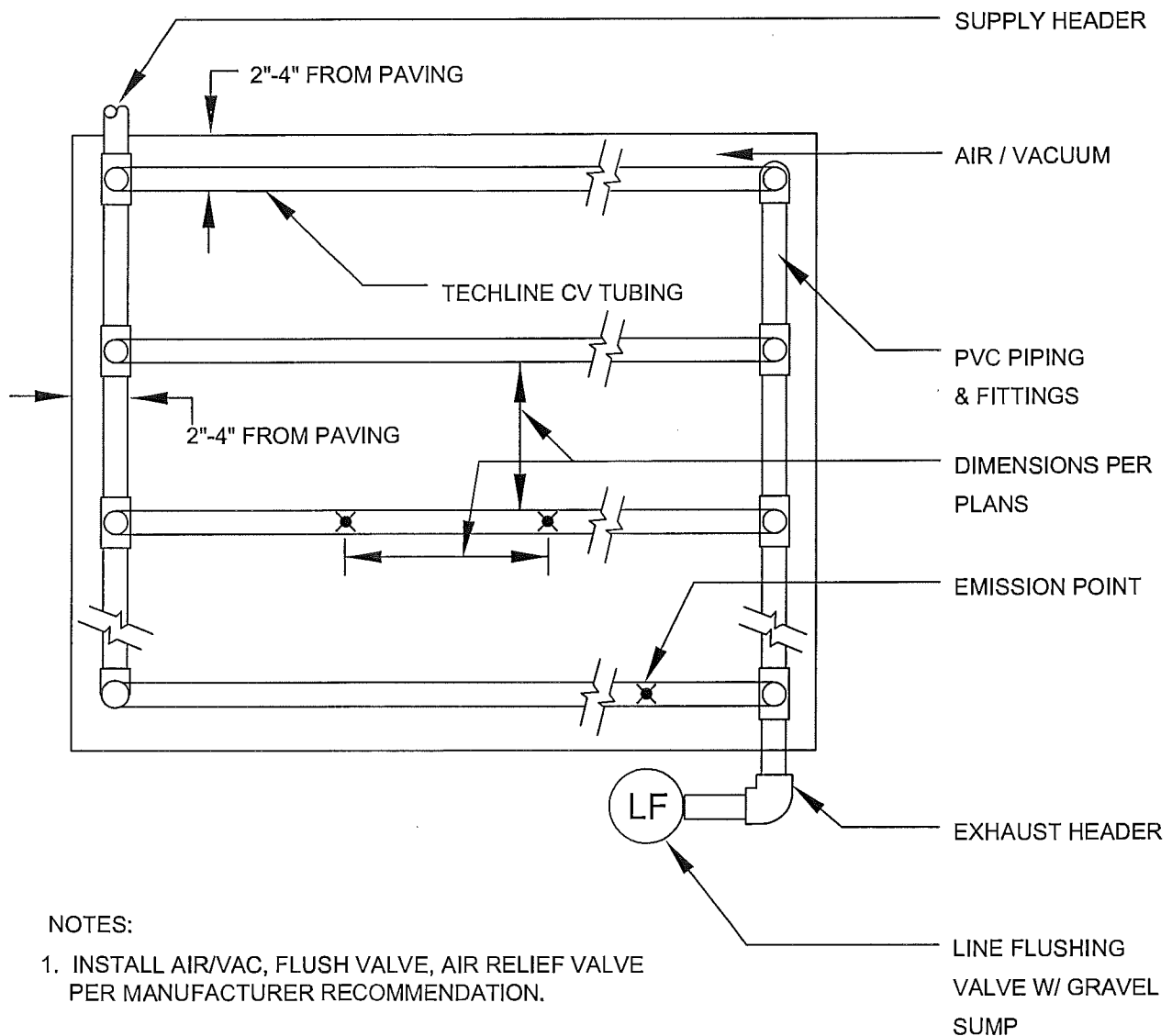
version: 01, revision: 00, date: 8/2006



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## IRRIGATION DETAIL IRR-25 IN LINE DRIP GRID LAYOUT

version: 01, revision: 00, date: 8/2006

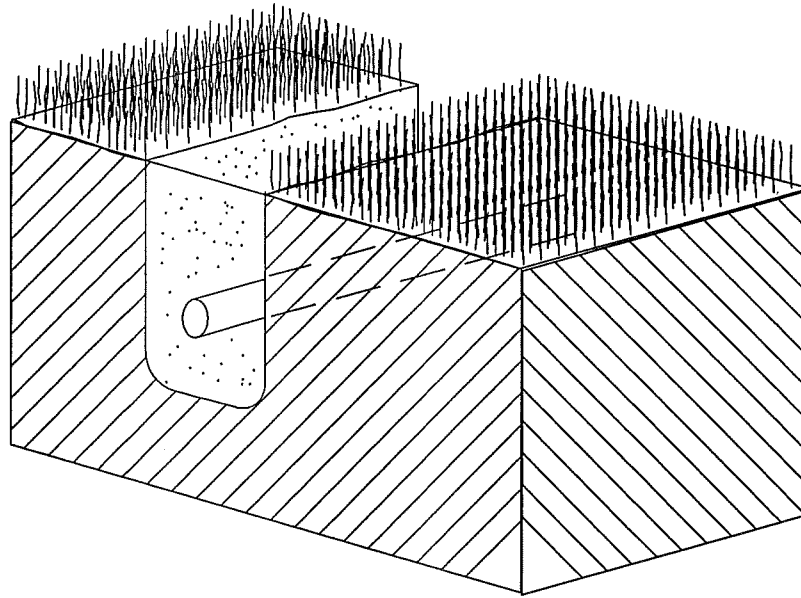
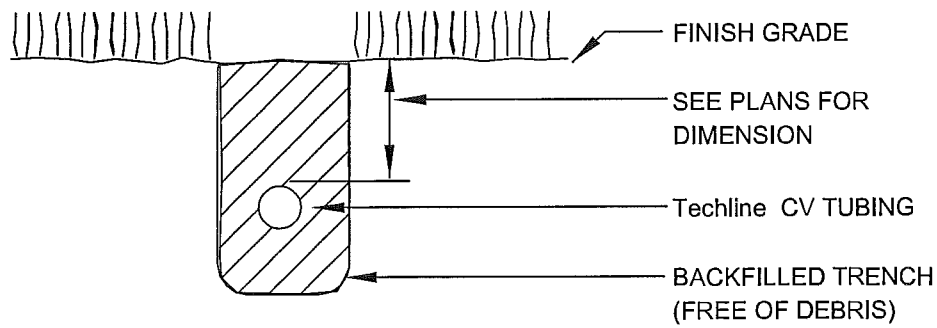


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NOTES:

1. INSTALL AIR/VAC, FLUSH VALVE, AIR RELIEF VALVE PER MANUFACTURER RECOMMENDATION.

## IRRIGATION DETAIL IRR-26 DRIP SUB SURFACE TURF

version: 01, revision: 00, date: 8/2006

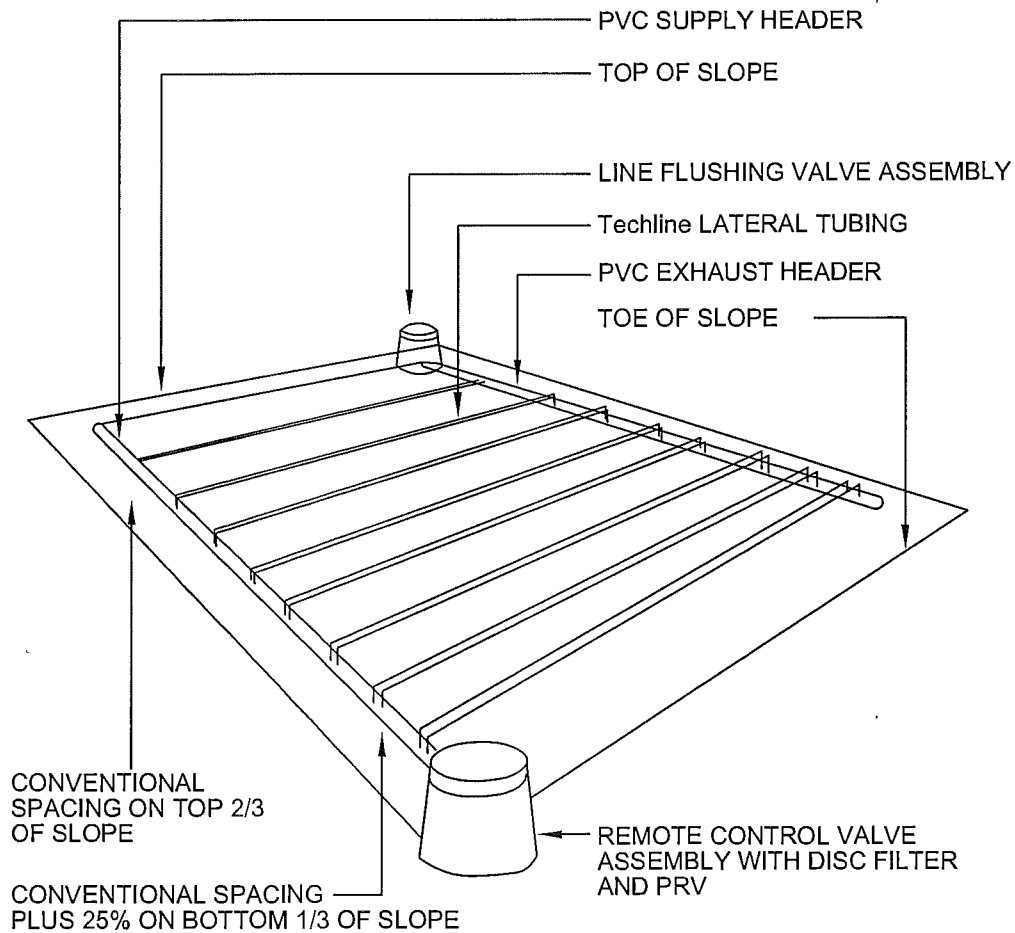


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NOTE:  
ALIGN Techline LATERALS PARRALLEL TO THE CONTOURS OF THE SLOPE

## IRRIGATION DETAIL IRR-27 DRIP ON SLOPE

version: 01, revision: 00, date: 8/2006

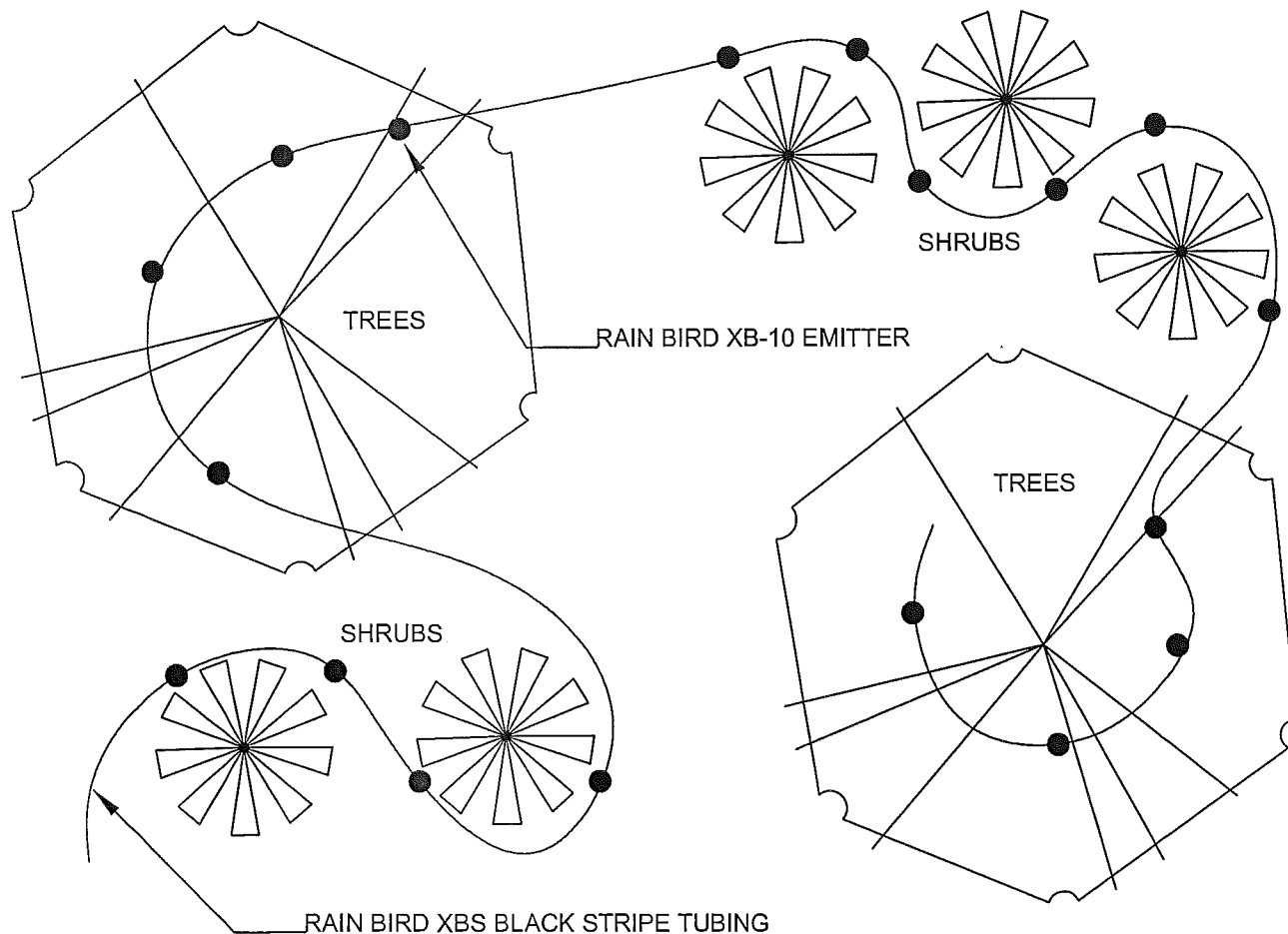


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LOCATE EMITTERS ON UPHILL SIDE OF SHRUBS. ON  
ON SLOPES PROVIDE WATER RETENTION BASIN  
AROUND PLANT TO ALLOW WATER TO POOL

## IRRIGATION DETAIL IRR-28 DRIP POINT SOURCE EMITTER

version: 01, revision: 00, date: 8/2006

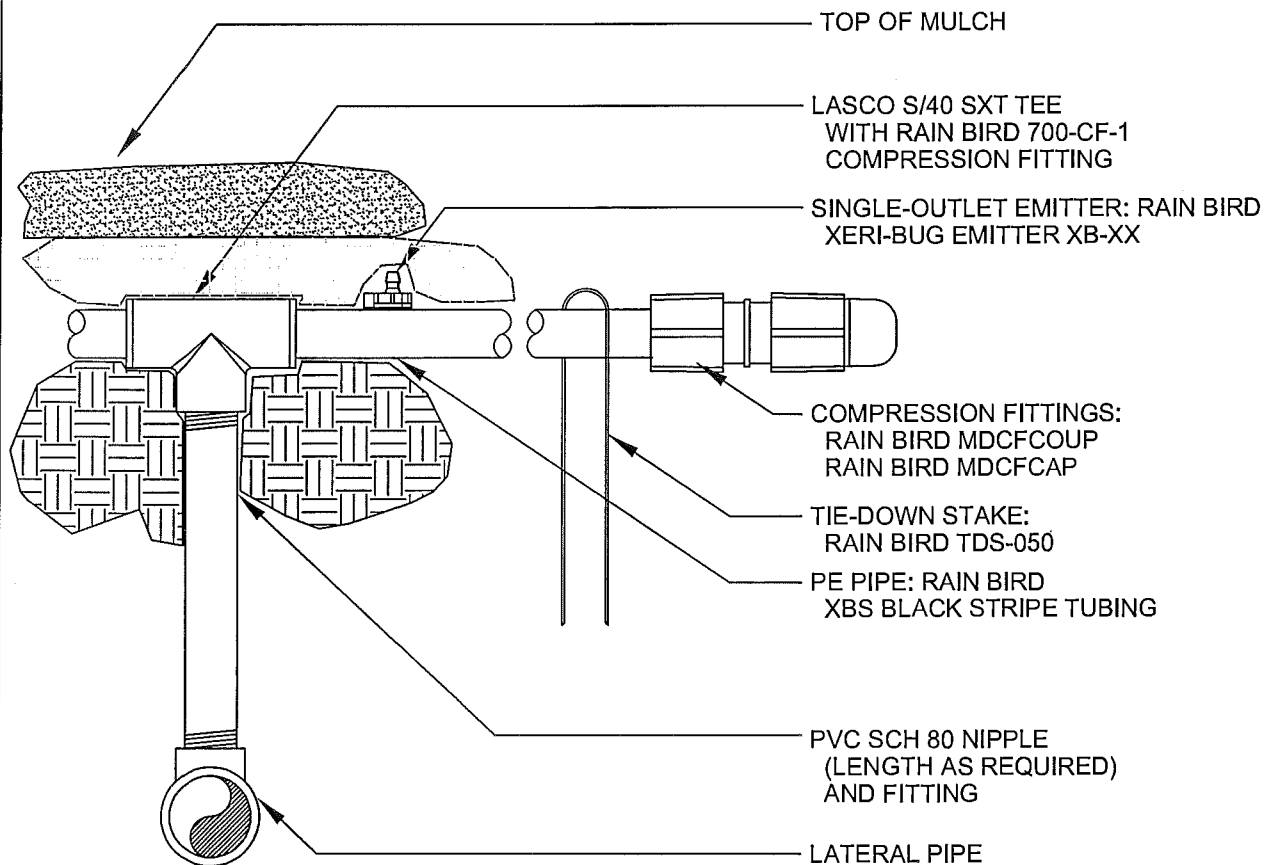


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NOTE:

1. USE RAIN BIRD BUG GUN MODEL EMA-BG TO INSERT EMITTER  
DIRECTLY INTO XBS BLACK STRIPE TUBING.

## IRRIGATION DETAIL IRR-29

### DRIP PVC TO PE CONNECTION

version: 01, revision: 00, date: 8/2006



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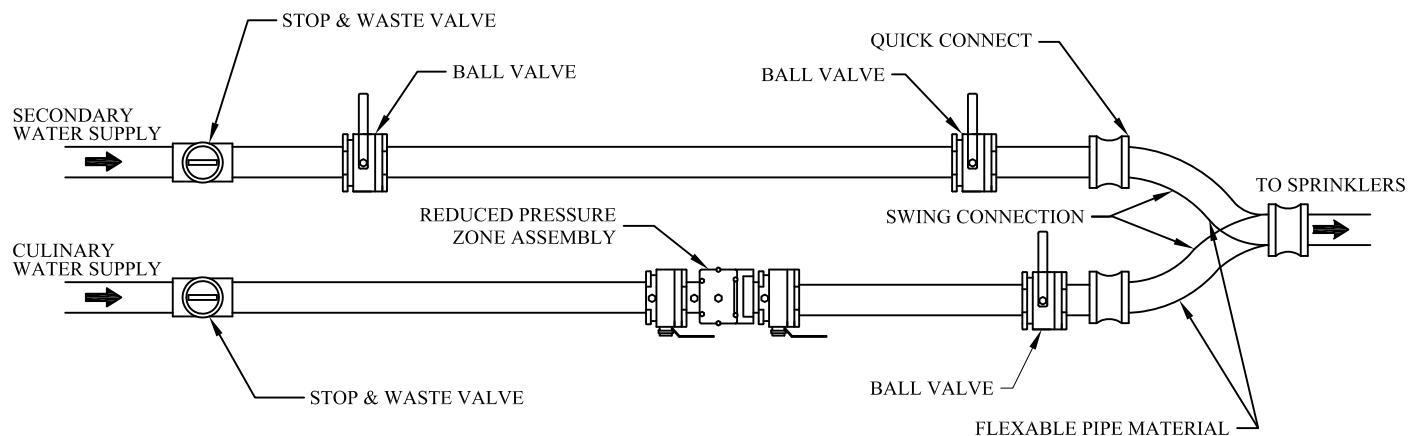
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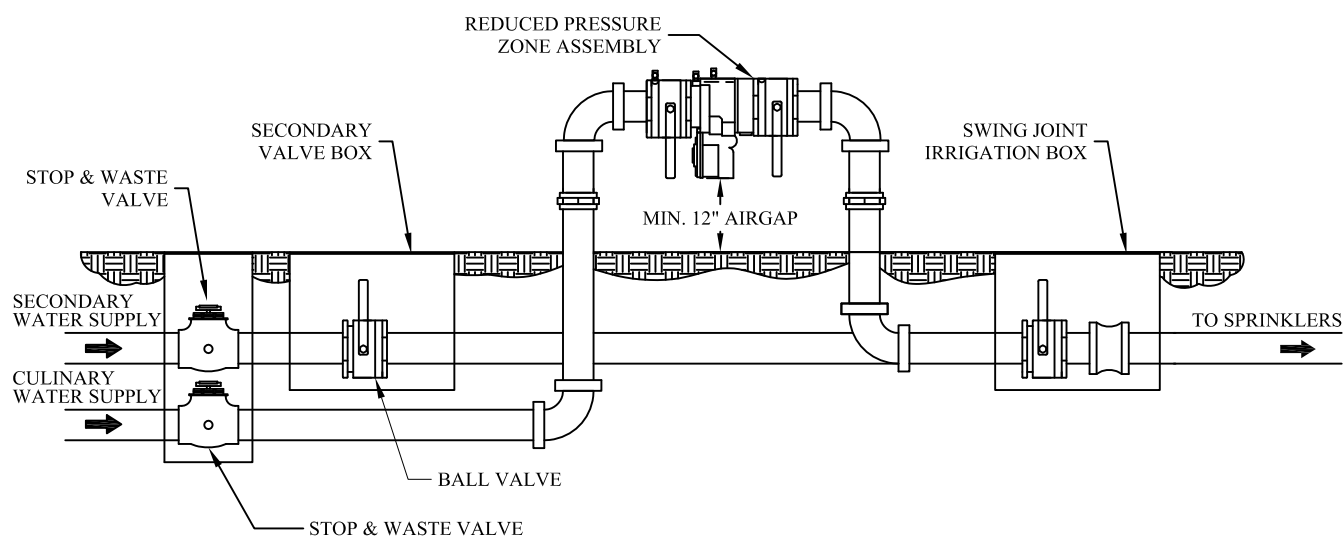
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# **SECONDARY WATER**



**PLAN VIEW**  
NOT TO SCALE



**PROFILE VIEW**  
NOT TO SCALE

**NOTES:**

1. THE SWING CONNECTION IS INSTALLED SO THAT EITHER THE SECONDARY IRRIGATION WATER OR THE CULINARY WATER IS CONNECTED AND FEEDING THE SPRINKLER SYSTEM AT THE ONE TIME, NEVER BOTH.
2. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE LOCATED AT A MINIMUM OF 12" FROM WALL, FENCE OR OTHER OBSTACLE.
3. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE LOCATED AT A MINIMUM OF 12" ABOVE GRADE (NOT ALLOWED IN A PIT BELOW GRADE).
4. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE TESTED BY A CERTIFIED BACKFLOW TECHNICIAN ON AN ANNUAL BASIS.

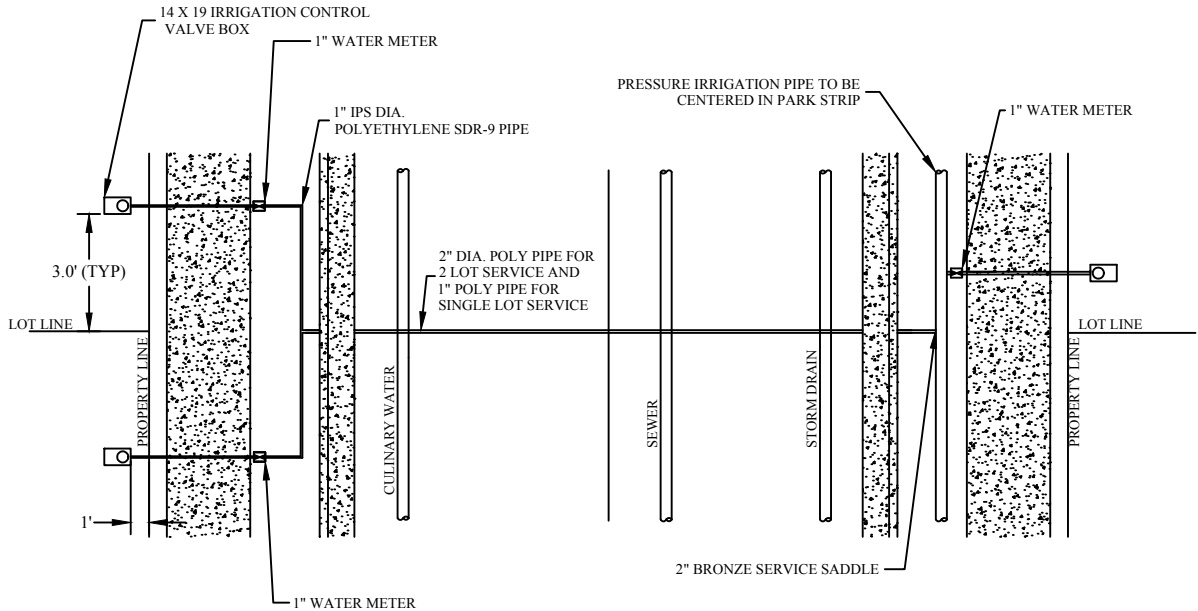


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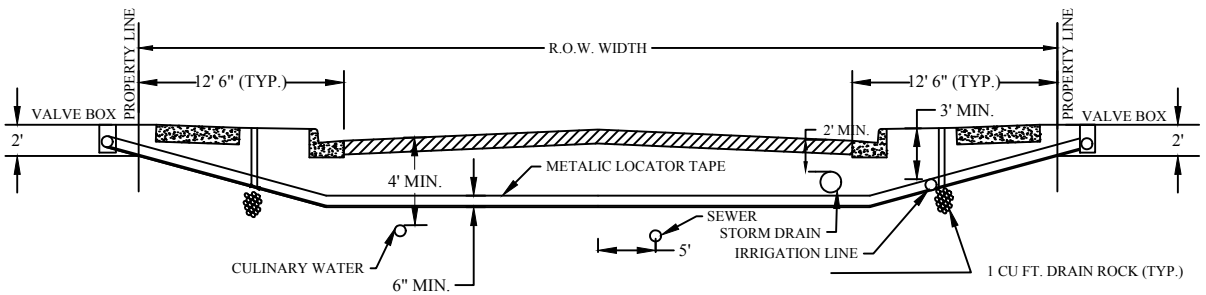
DATE	REVISIONS	BY	DRAWN:
			KS
			DATE:
			2/06

**BACKFLOW PREVENTION DEVICE  
IRRIGATION CONNECTION**

STANDARD  
DRAWING  
**2001**



**TYPICAL DOUBLE RISER DETAIL**  
NOT TO SCALE



**TYPICAL DOUBLE RISER DETAIL**  
NOT TO SCALE

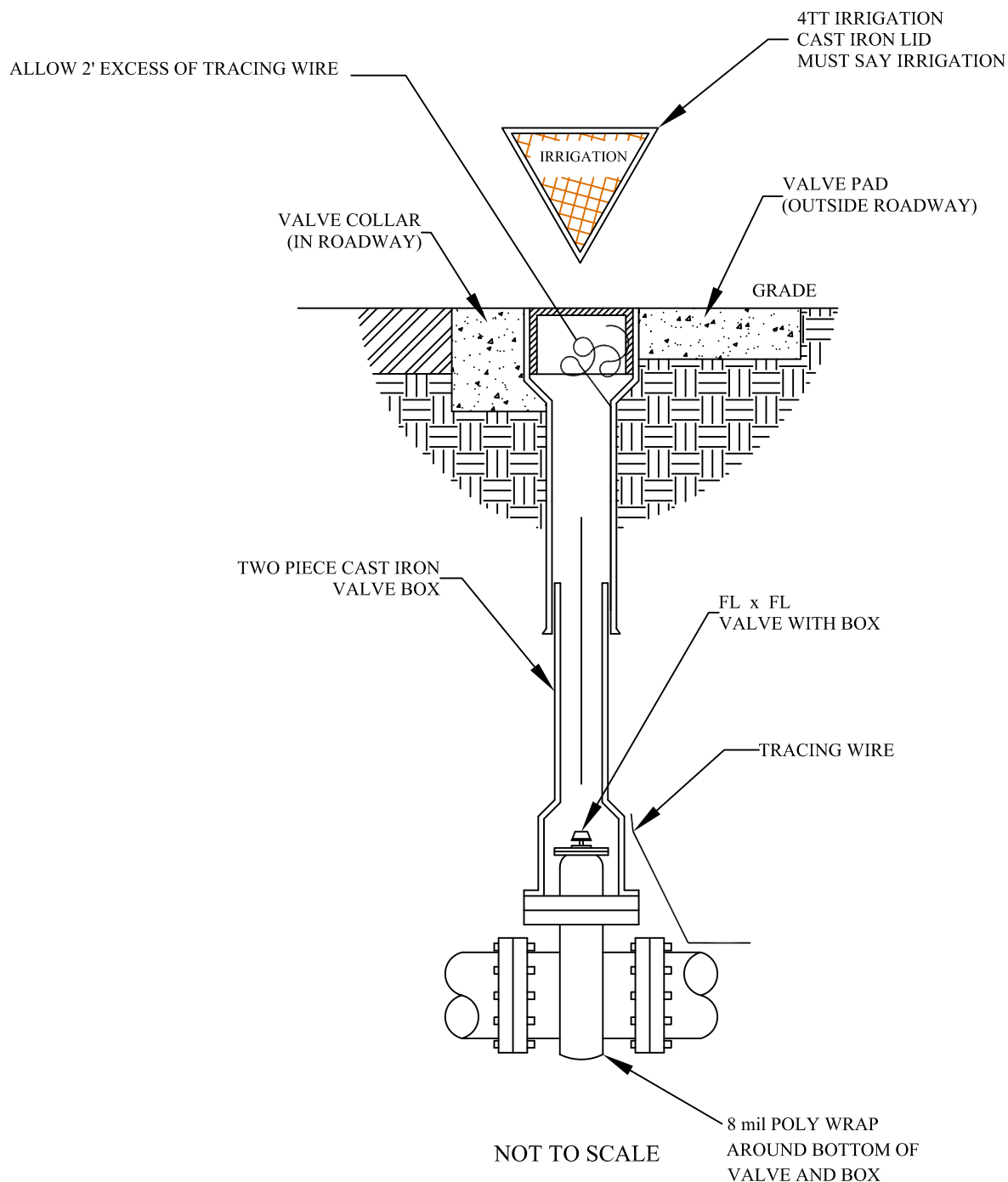


**SOUTH JORDAN CITY**

			DRAWN:
			KS
			DATE:
			2/06
DATE	REVISIONS	BY	

**SECONDARY WATER  
LATERAL LAYOUT**

**STANDARD  
DRAWING  
2002**



- NOTES: 1. 14 GAUGE COPPER WIRE SHALL BE PLACED OUTSIDE OF BOTTOM OF BOX AND INSIDE TOP OF BOX
2. VALVE OPERATING NUTS SHALL BE WITHIN 3' TO THE FINISHED SURFACE. EXTENTIONS STEMS WITH ROCK SHIELDS SHALL BE PROVIDED WHERE DEPTHS EXCEED 4'.

PREPARED BY: \_\_\_\_\_

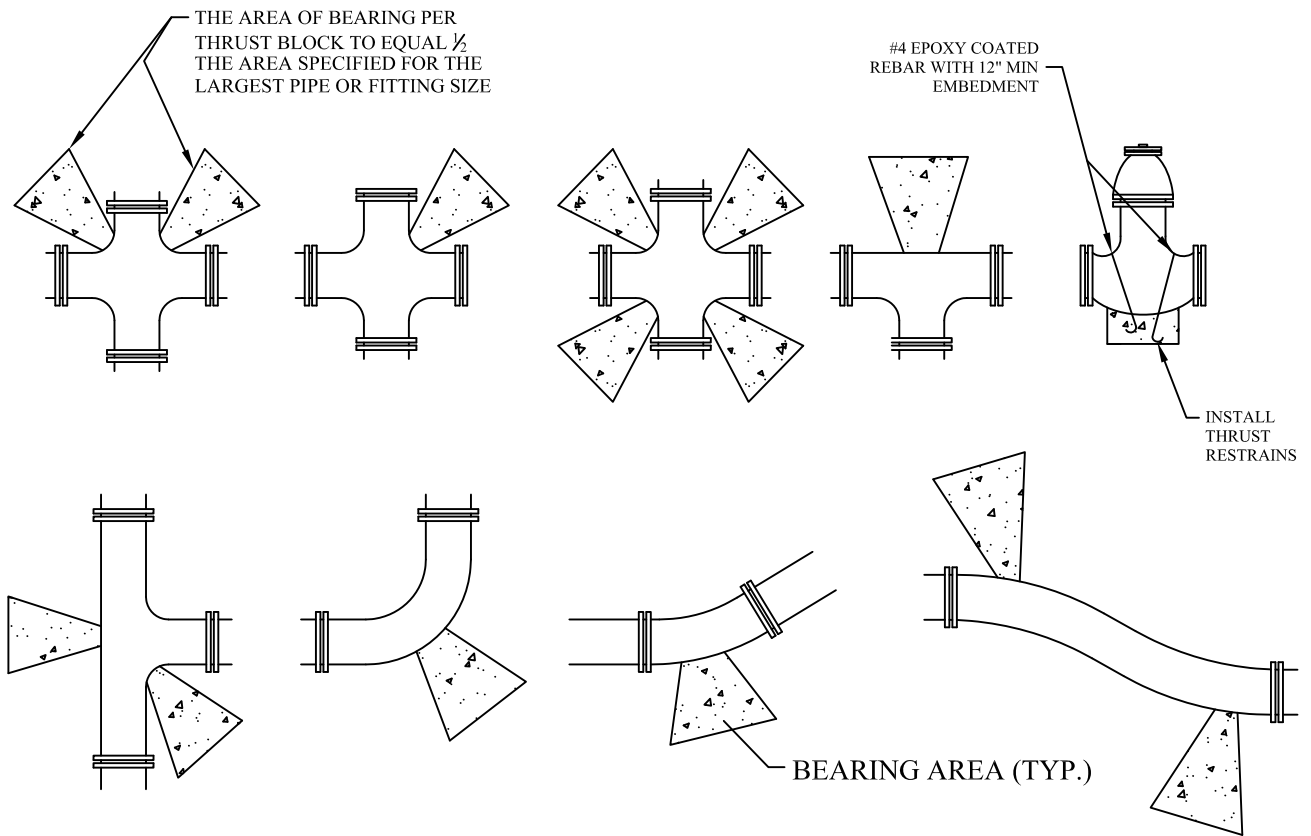


**SOUTH JORDAN CITY**

			DRAWN:
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			DATE
			1/06
DATE	REVISIONS	BY	

**VALVE BOX INSTALLATION**

STANDARD  
DRAWING  
**2005**



NOT TO SCALE

NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THRUST BLOCK, SECURE INSPECTIONS OF INSTALLATION BY ENGINEER OR CITY INSPECTOR.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. CONCRETE: CLASS 2,000 MINIMUM. POUR CONCRETE AGAINST UNDISTURBED SOIL.
4. PIPE JOINTS: DO NOT COVER WITH CONCRETE. LEAVE COMPLETELY ACCESSIBLE.
5. GREASE: APPLY POLY-FM GREASE TO ALL BURIED METAL SURFACES. WRAP WITH 8 MIL THICK POLYETHYLENE SHEET AND TAPE WRAP.
6. SPECIAL CONSTRUCTION REQUIREMENTS:
  - A. THRUST DESIGN FOR PIPE SIZES OR CONFIGURATIONS NOT SHOWN REQUIRE SPECIAL DESIGN.
  - B. BEARING AREAS, VOLUMES, AND SPECIAL THRUST BLOCKING DETAILS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER THIS PLAN.
  - C. REINFORCING STEEL BARS TO BE EPOXY COATED AT LEAST 15 MILS THICK. MINIMUM STRESS YIELD STRENGTH OF TIE DOWN BARS IS 70,000 PSI.
  - D. LOCKING RESTRAINT DEVICES MAY BE USED IN CONJUNCTION WITH CONCRETE THRUST BLOCKING (AT OPTION OF ENGINEER).
  - E. RESTRAINT SIZING IS BASED UPON A MAXIMUM OPERATING PRESSURE OF 150 PSI AND A TEST PRESSURE OF 200 PSI, AND A MINIMUM SOIL BEARING STRESS OF 2,000 PSF. OPERATING PRESSURES IN EXCESS OF 150 PSI OR SOILS WITH LESS THAN 2,000 POUND BEARING STRENGTH WILL REQUIRE SPECIAL DESIGN.
  - F. CONCRETE MUST BE ALLOWED TO CURE IN THRUST RESTRAINTS FOR 5 DAYS PRIOR TO PRESSURIZING WATER LINES OR HAVE ADDITIONAL APPROVED THRUST RESTRAINTS INSTALLED PRIOR TO PRESSURIZING THE WATER LINE.
7. MEGALUGS REQUIRED ON ALL FITTINGS

MINIMUM BEARING AREA IN SQ. FT.					
SIZE OF PIPE	TEES, VALVES DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	1.5	1
8"	6.5	9.5	5	2.75	1.5
12"	14	20	11	5.5	3
14"	19	26.5	14.5	7.5	4
16"	24	34	18.5	9.5	6
20"	27	52	28.5	14.5	16
24"	53	74	41	21	53
30"	81	114	62	32	16

PREPARED BY: \_\_\_\_\_



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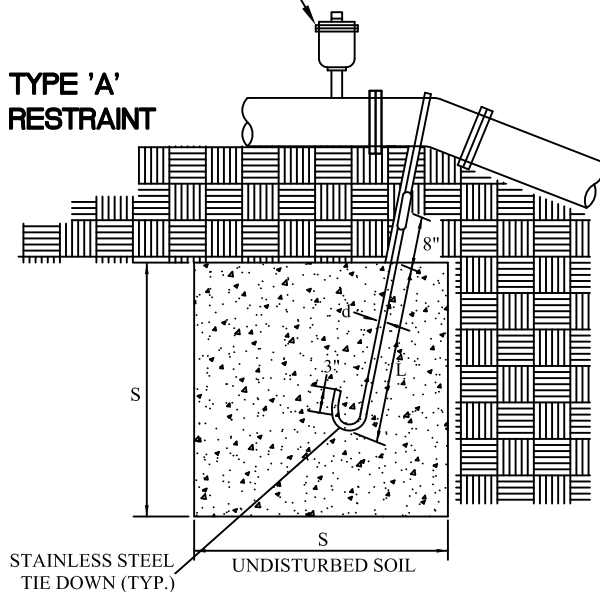
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			DATE
DATE	REVISIONS	BY	

**DIRECT BEARING THRUST  
BLOCKS / TIE DOWN RESTRAINTS**

STANDARD  
DRAWING  
**2006**

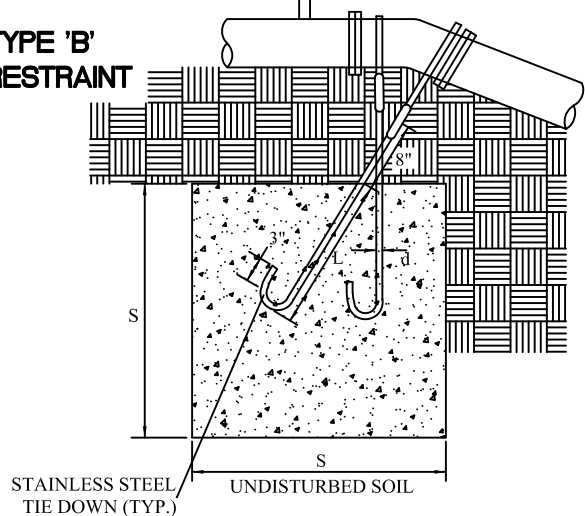
2" COMBINATION AIR &  
VACUUM VALVE  
AND AIR RELEASE VALVE  
WHEN LOOP IS REQUIRED

### TYPE 'A' RESTRAINT



2" COMBINATION AIR &  
VACUUM VALVE  
AND AIR RELEASE VALVE  
WHEN LOOP IS REQUIRED

### TYPE 'B' RESTRAINT



NOT TO SCALE

### TYPE 'A' RESTRAINT

FOR 11 1/4°-22 1/2° VERTICAL BENDS

TABLE OF DIMENSIONS					
	VB		S	d	L
PIPE SIZE NOMIN. DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU FT. OF CONC. BLOCKING	SIDE OF CUBE FEET	DIAMETER OF SHACK OR REBAR RODS - INCH	DEPTH OF RODS IN CONCRETE FT.
4"	11 1/4°	8	2.0	5/8"	1.5
	22 1/2°	15.6	2.5	5/8"	2.0
6"	11 1/4°	15.6	2.5	5/8"	2.0
	22 1/2°	34.3	3.25	5/8"	2.0
8"	11 1/4°	27	3.0	5/8"	2.0
	22 1/2°	64	4.0	5/8"	2.0
12"	11 1/4°	64	4.0	3/4"	2.0
	22 1/2°	125	5.0	3/4"	3.0
16"	11 1/4°	107	4.25	7/8"	3.0
	22 1/2°	216	6.0	7/8"	4.0
20"	11 1/4°	138	5.17	1"	3.5
	22 1/2°	334	6.94	1"	4.0
24"	11 1/4°	240	6.22	1"	4.0
	22 1/2°	476	7.81	1"	4.0
30"	11 1/4°	369	7.17	1"	4.0
	22 1/2°	733	9.02	1"	4.0

### TYPE 'B' RESTRAINT

FOR 45° VERTICAL BENDS

TABLE OF DIMENSIONS					
	VB		S	d	L
PIPE SIZE NOMIN. DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU C.Y. OF CONC. BLOCKING	SIDE OF CUBE FEET	DIAMETER OF SHACK OR REBAR RODS - INCH	DEPTH OF RODS IN CONCRETE FT.
4"	45°	1	3.0	5/8"	2.0
				5/8"	
6"	45°	2.37	4.0	5/8"	2.5
				5/8"	
8"	45°	3.97	4.75	5/8"	2.0
				5/8"	
12"	45°	9.04	6.25	5/8"	4.0
				5/8"	
16"	45°	17.24	7.75	3/4"	4.0
				3/4"	
20"	45°	26.52	8.95	3/4"	4.0
				3/4"	
24"	45°	37.82	10.07	3/4"	4.0
				3/4"	
30"	45°	58.26	11.63	3/4"	4.0
				3/4"	

PREPARED BY: \_\_\_\_\_

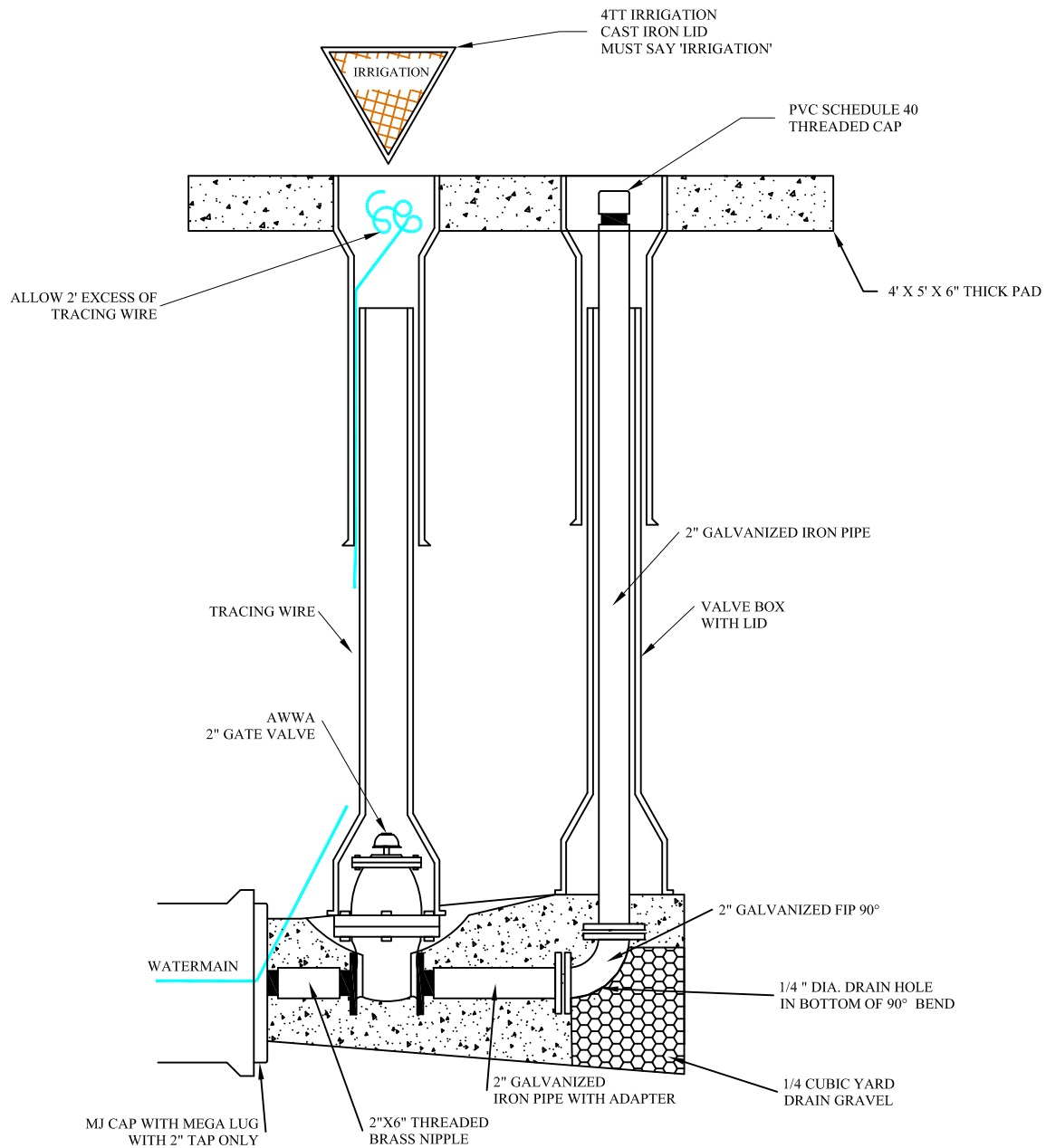


**SOUTH JORDAN CITY**

			DRAWN:
			DATE
DATE	REVISIONS	BY	

**TIE DOWN  
THRUST RESTRAINTS**

STANDARD  
DRAWING  
**2007**



NOT TO SCALE

NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THRUST BLOCK, SECURE INSPECTION OF INSTALLATION BY CITY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. CONCRETE: CLASS 2,000 MINIMUM. POUR CONCRETE AGAINST UNDISTURBED SOIL. THRUST BLOCK MUST MEET APWA.
4. TAPE: APPLY TAPE WRAP TO THE EXTERIOR OF ALL GALVANIZED PIPE PER AWWA C209
5. SPECIAL DESIGN: WATERMAINS 12" AND LARGER WILL REQUIRE SPECIAL WASHOUT ASSEMBLY DESIGN.
6. DRAINAGE: AFTER INSTALLATION OF WASHOUT VALVE ASSEMBLY, VERIFY THE WASHOUT VALVE RISER DRAINS TO GRAVEL.
7. WRAP ALL FOOTINGS PRIOR TO PLACEMENT OF THRUST BLOCKING

PREPARED BY: \_\_\_\_\_

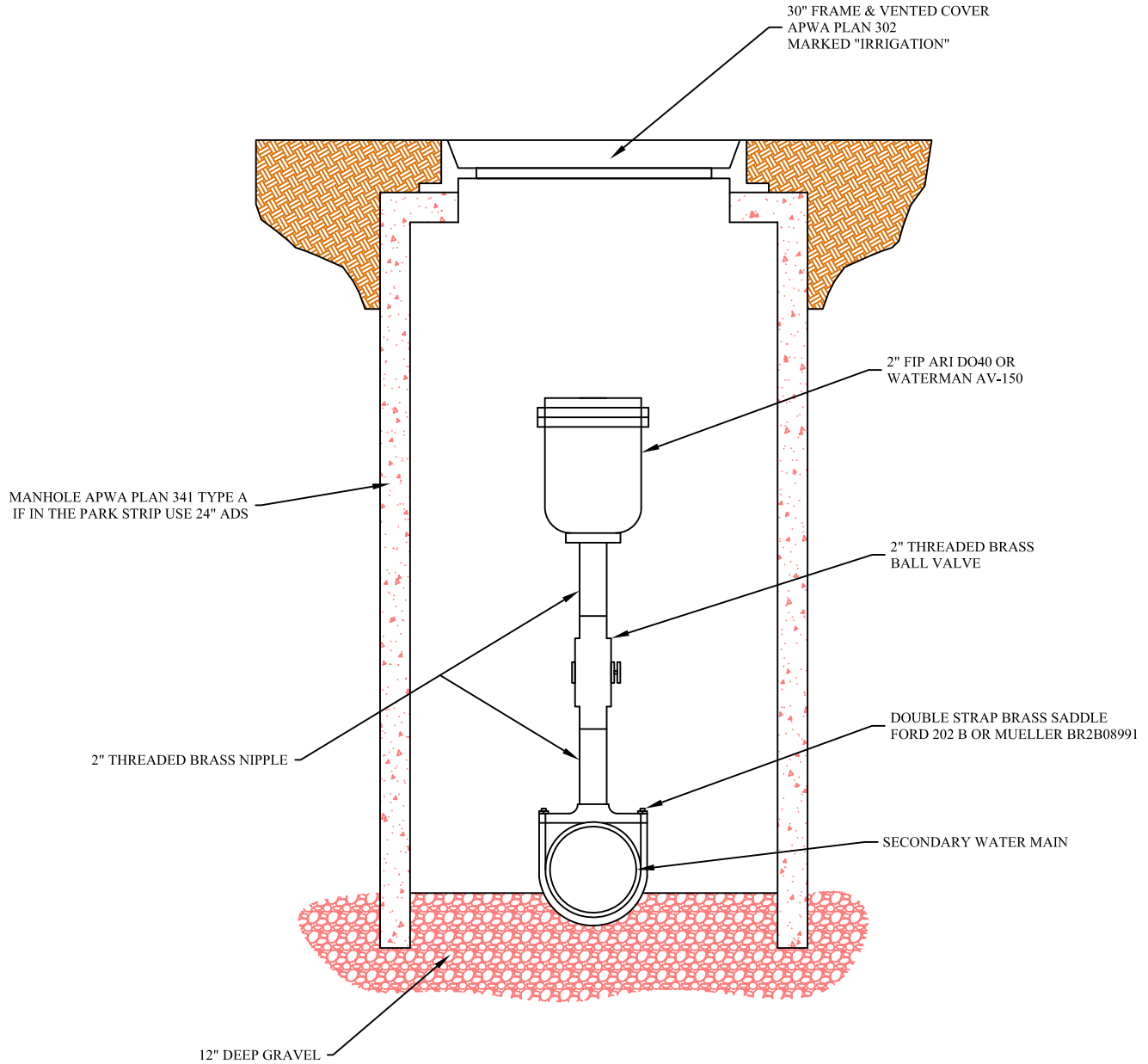


SOUTH JORDAN CITY

			DRAWN:
			DATE
DATE	REVISIONS	BY	

SECONDARY WASHOUT VALVE ASSEMBLY

STANDARD  
DRAWING  
**2008**



NOT TO SCALE

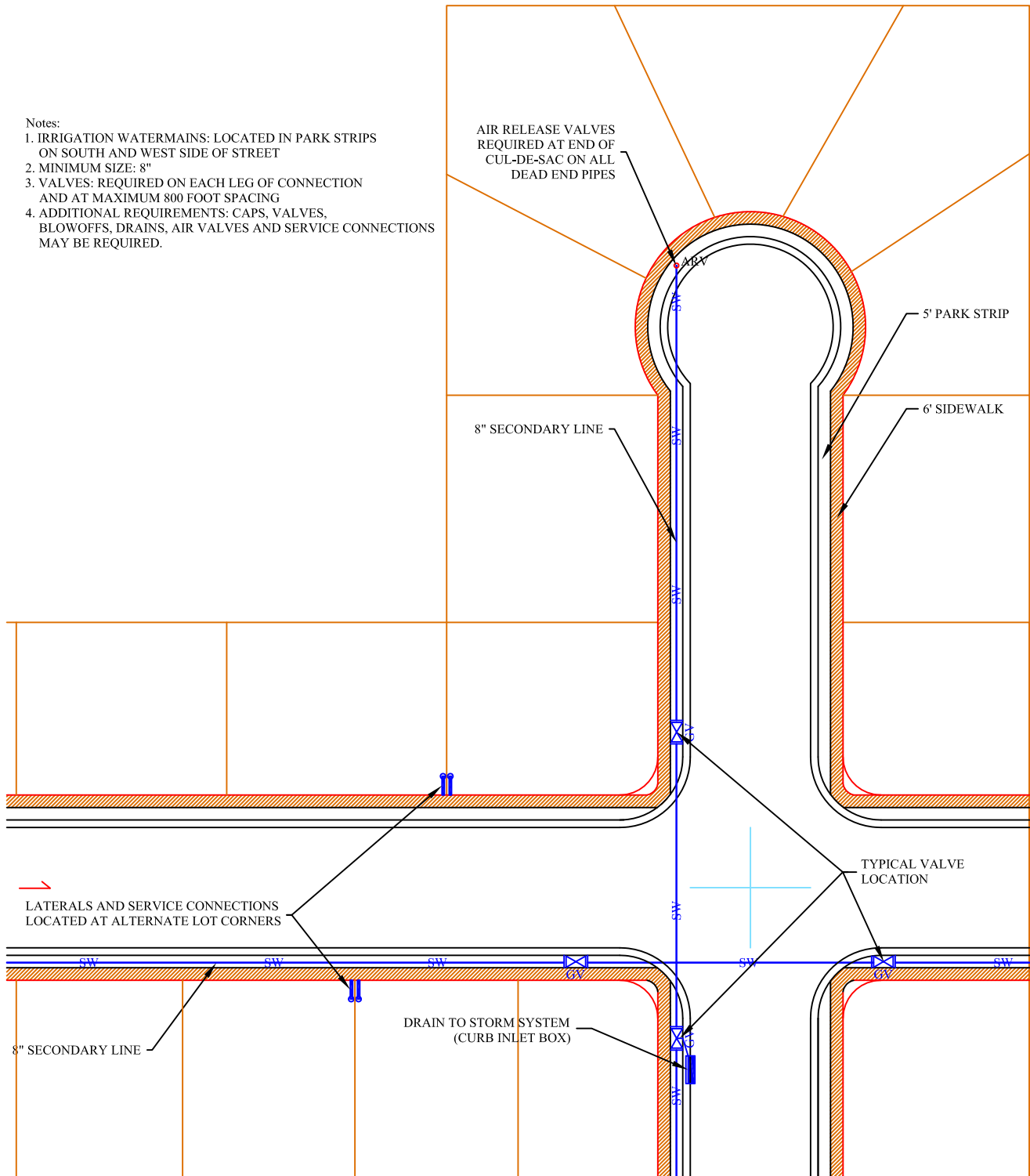


## SOUTH JORDAN CITY

			DRAWN: <b>AP</b>	<b>SECONDARY WATER 2" AIR/VACUUM RELEASE VALVE</b>	<b>STANDARD DRAWING 2010</b>
			DATE: <b>02/08</b>		
DATE	REVISIONS	BY			



- Notes:
1. IRRIGATION WATERMAINS: LOCATED IN PARK STRIPS ON SOUTH AND WEST SIDE OF STREET
  2. MINIMUM SIZE: 8"
  3. VALVES: REQUIRED ON EACH LEG OF CONNECTION AND AT MAXIMUM 800 FOOT SPACING
  4. ADDITIONAL REQUIREMENTS: CAPS, VALVES, BLOWOFFS, DRAINS, AIR VALVES AND SERVICE CONNECTIONS MAY BE REQUIRED.



NOT TO SCALE

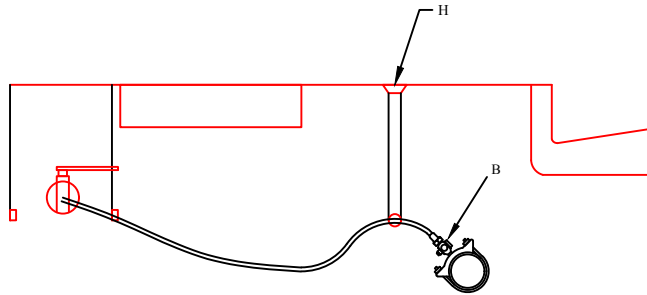
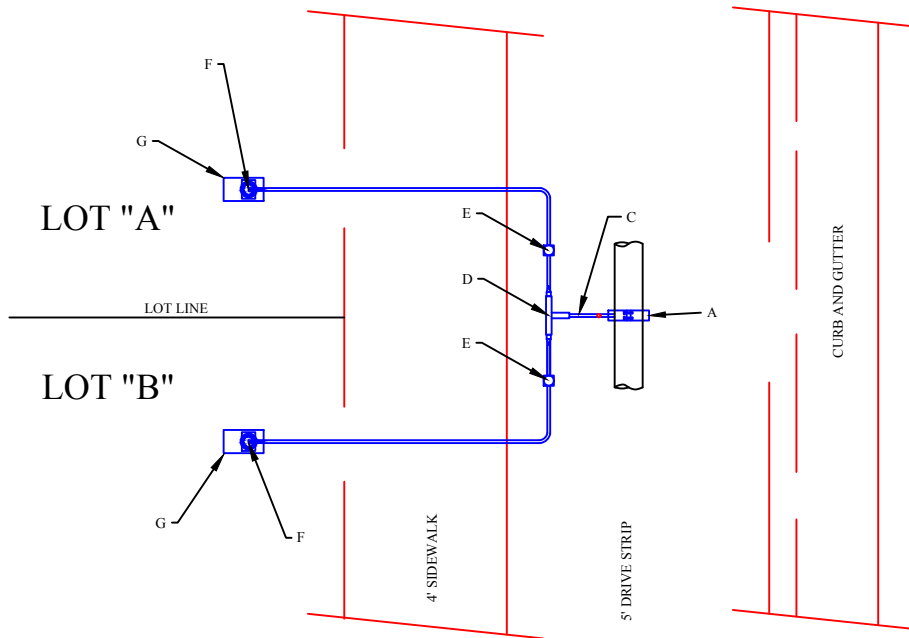


SOUTH JORDAN CITY

			DRAWN:
			AP
			DATE:
			02/08
DATE	REVISIONS	BY	

SECONDARY RESIDENTIAL  
INSTALLATION

STANDARD  
DRAWING  
**2011**



SIZE	DESCRIPTION	SIZE	COMMENTS
A	TAPPING SADDLE	VARIES	BRASS DOUBLE STRAP SADDLE FORD 202B OR MUELLER BR2B08991
B	2" CTS x MIP ADPT.		FORD C84-72QNL OR MUELLER H15428N
C	POLY PIPE	2"	CTS, PURPLE SDR 9
D	TEE AND 2 x 1 BUSHINGS	2"	BRASS
E	WATER METER	1"	
F	BALL VALVE	1"	BALVE VALVE w/ HANDLE
G	SERVICE BOX	12" x 18"	IRRIGATION CONTROL VALVE BOX CARSON 1419-B-12
H	WATER METER BOX		FORD METER BOX LYLBB111-444-C16171-001-NL

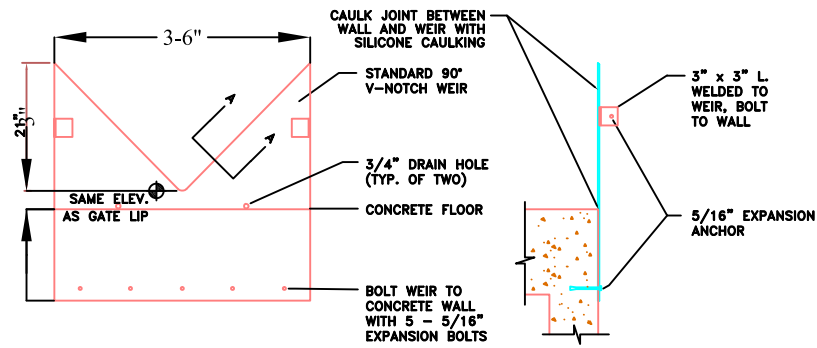
NOT TO SCALE



SOUTH JORDAN CITY

DATE	REVISIONS	BY	DRAWN: AP	SECONDARY WATER SERVICE CONNECTION	STANDARD DRAWING 2012
			DATE: 02/08		

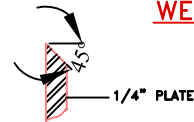




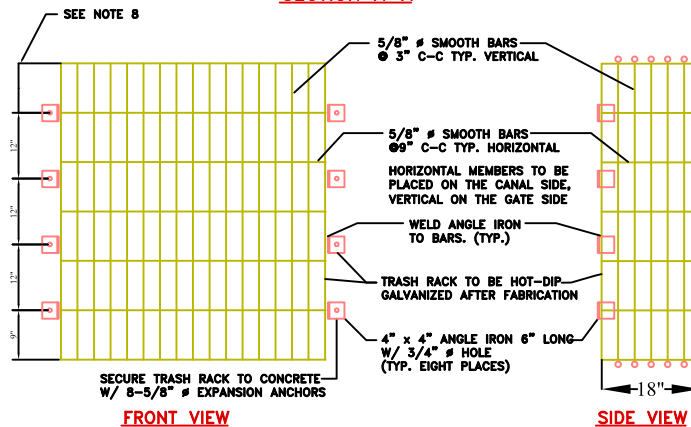
**WEIR FRONT VIEW**

**WEIR SIDE VIEW**

NOTE:  
WEIR TO BE HOT-DIP GALVANIZED AFTER FABRICATION



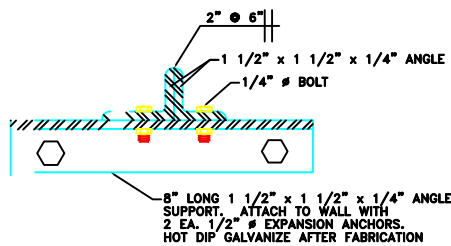
**SECTION A-A**



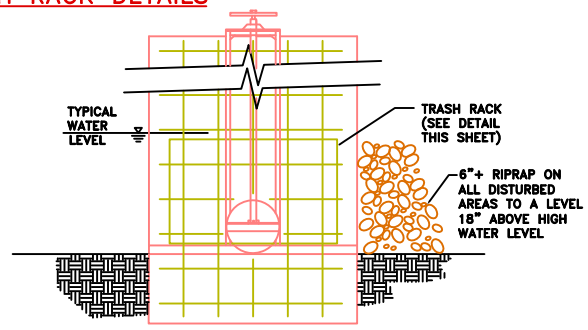
**FRONT VIEW**

**SIDE VIEW**

**TRASH RACK DETAILS**



**DOUBLE-ANGLE GRATING SUPPORT DETAIL**



**SLIDE GATE DETAIL**

NOT TO SCALE

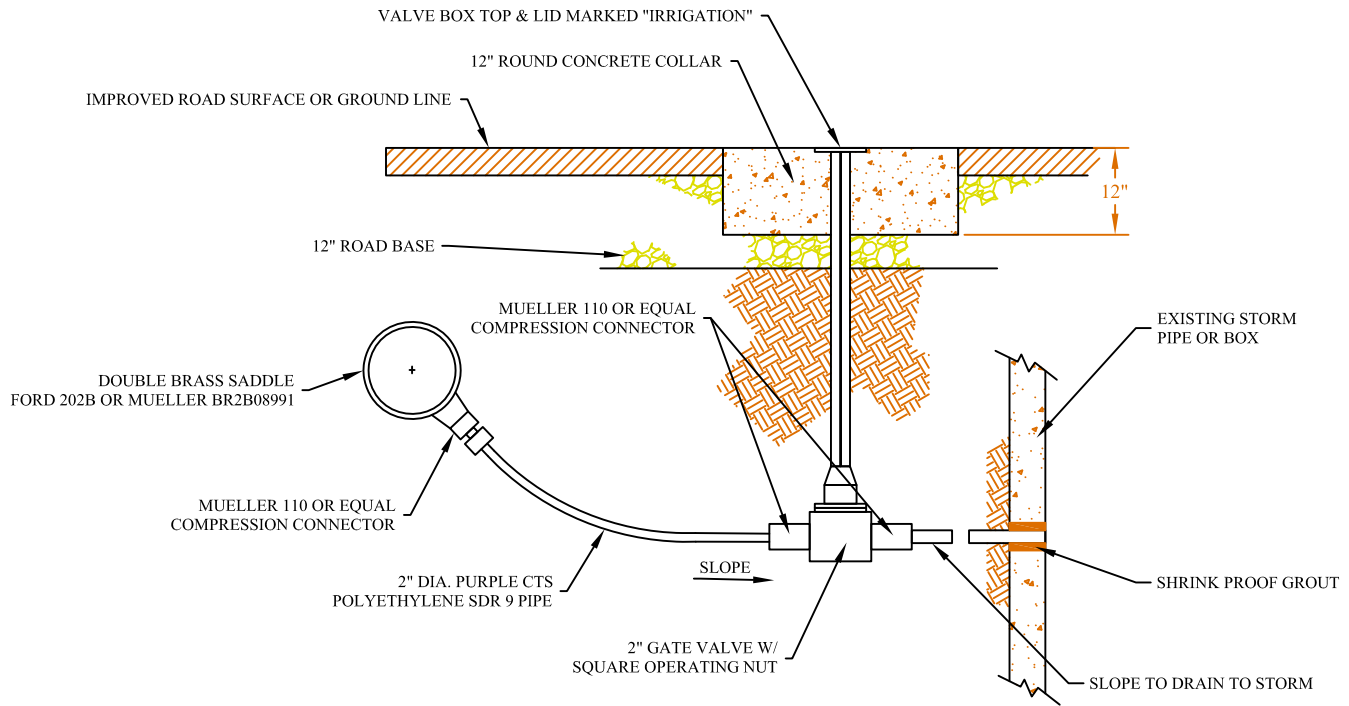


**SOUTH JORDAN CITY**

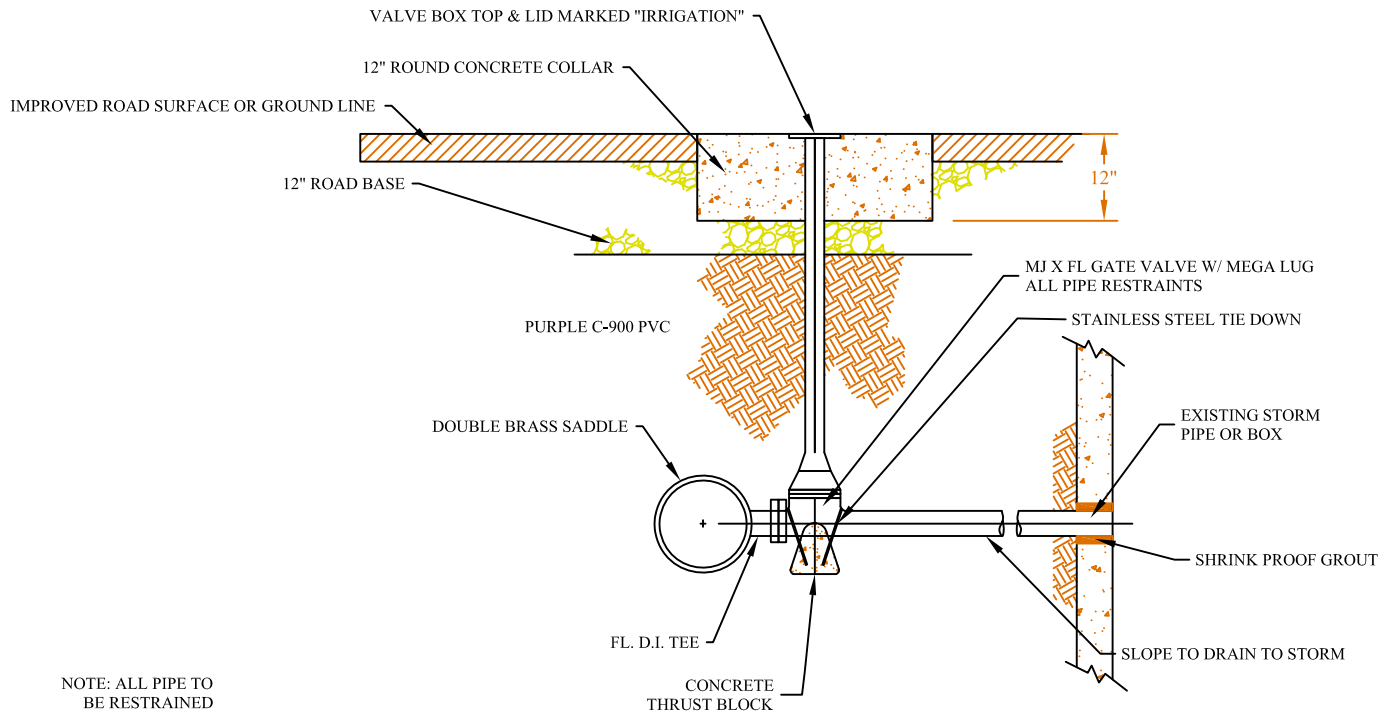
			DRAWN:
			TB
			DATE:
DATE	REVISIONS	BY	11/07

**PRESSURE IRRIGATION  
CANAL GATE AND WEIR BOX**

STANDARD  
DRAWING  
**2015**



**2" DRAIN VALVE DETAIL**  
NOT TO SCALE



NOTE: ALL PIPE TO  
BE RESTRAINED

**4" AND LARGER DRAIN VALVE DETAIL**  
NOT TO SCALE

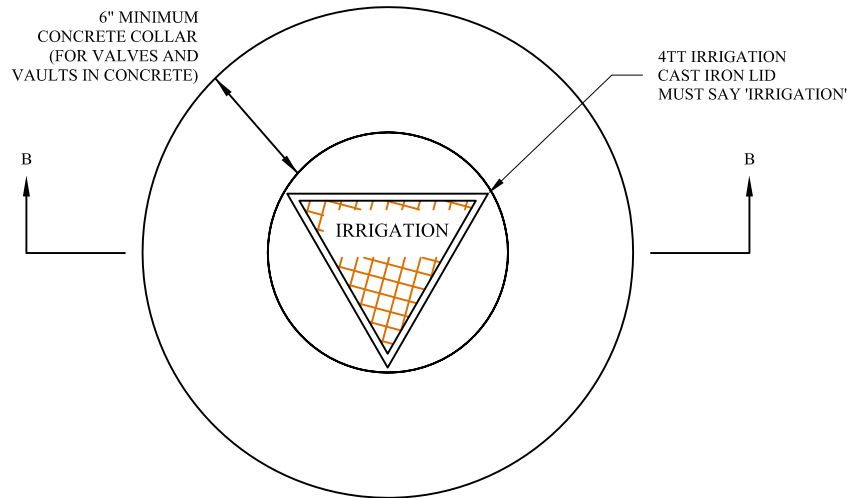


**SOUTH JORDAN CITY**

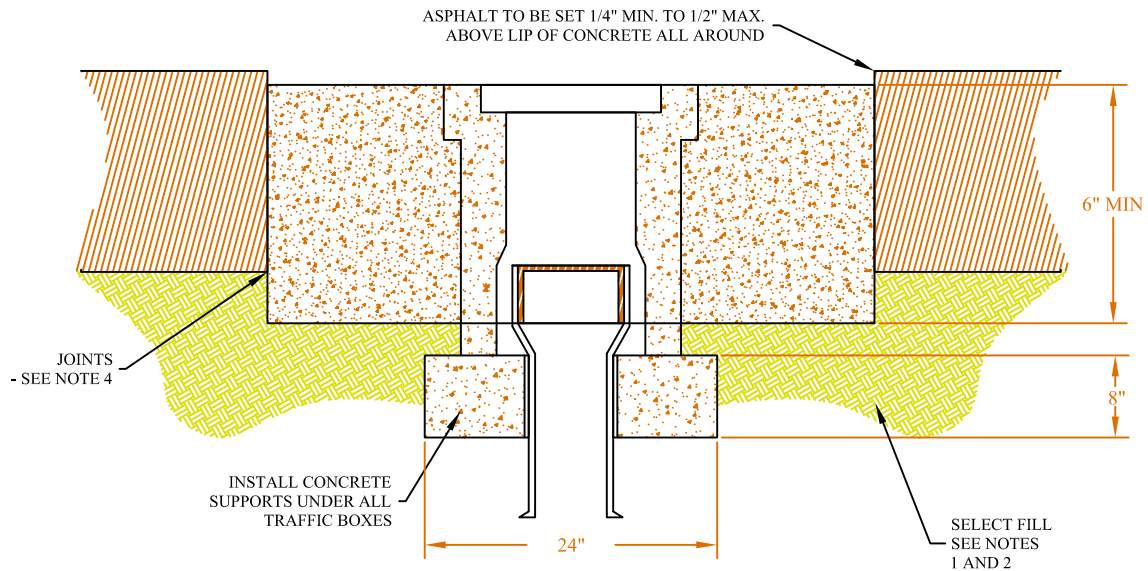
			DRAWN: AP
			DATE: 02/08
DATE	REVISIONS	BY	

**2" AND 4" DRAIN VALVE DETAIL**

STANDARD  
DRAWING  
**2016**



**PLAN VIEW**  
NOT TO SCALE



**SECTION B-B**  
NOT TO SCALE

#### NOTES

1. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
2. SELECT FILL: USE UNTREATED BASE COURSE GRADE 3/4" MAXIMUM PER SPECIFICATONS.  
USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
3. CONCRETE: CLASS 4,000. APPLY A SEALING/COURING COMPOUND PER SPECIFICATONS.
4. JOINTS: PROVIDE A NEAT STRAIGHT JOINT BETWEEN EXISTING AND NEW ASPHALT CONCRETE SURFACES. PROVIDE CONCENTRIC CIRCLE CUT. CLEAN EDGES OF ALL DIRT, OIL AND LOOSE DEBRIS.

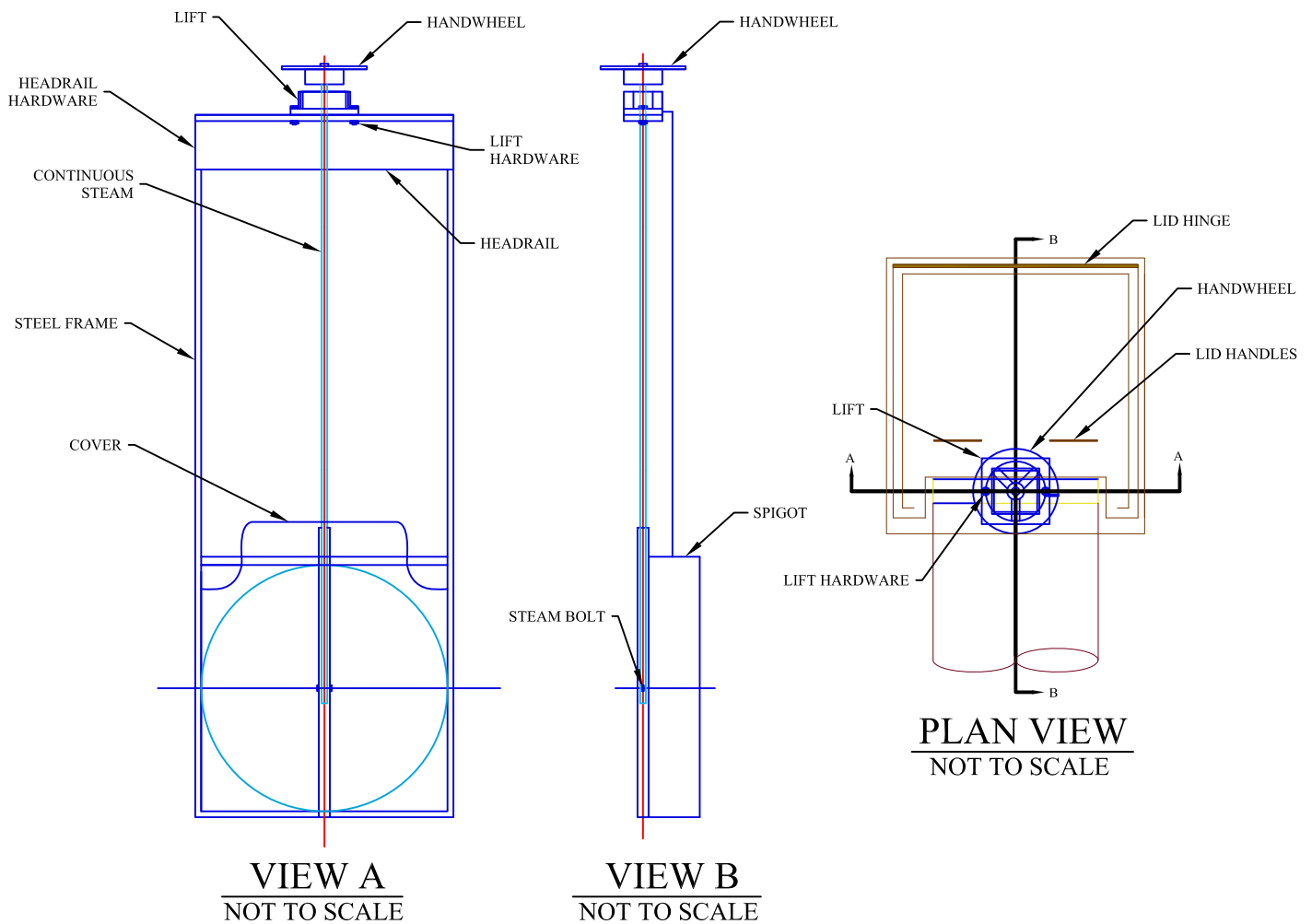


**SOUTH JORDAN CITY**

			DRAWN:
			AP
			DATE:
			02/08
DATE	REVISIONS	BY	

**COVER COLLAR  
(IN PAVEMENT)**

STANDARD  
DRAWING  
**2017**



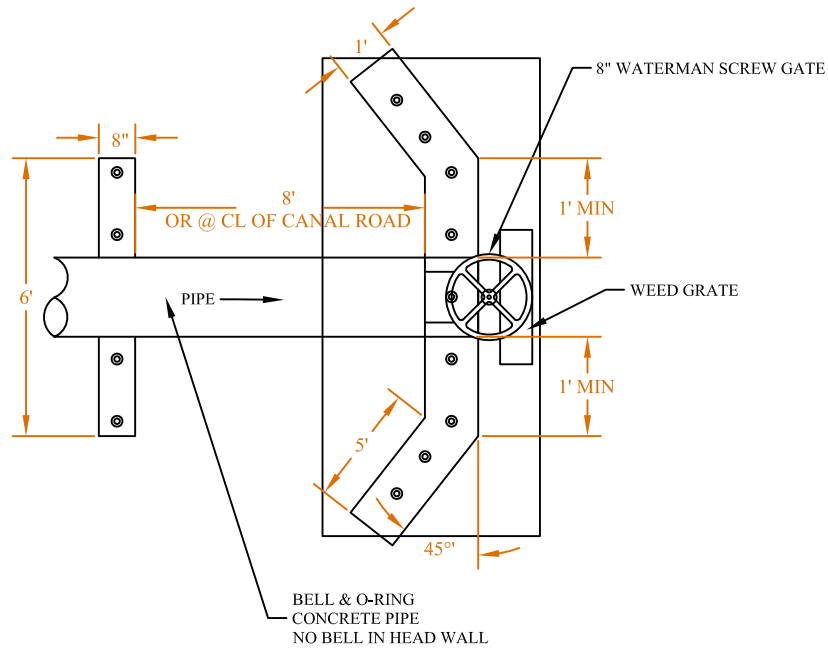
#### NOTES

1. MANUFACTURER: WATERMAN INDUSTRIES, INC.
2. MATERIAL: ALUMINUM OR STAINLESS STEEL
3. IRRIGATION COMPANY MUST APPROVE.

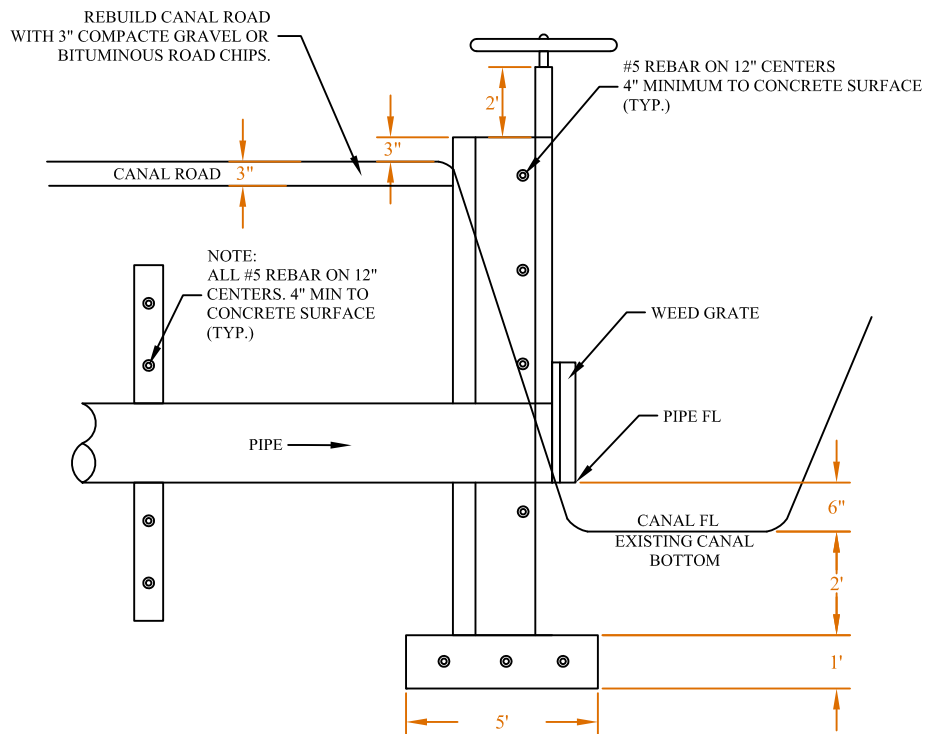


**SOUTH JORDAN CITY**

			DRAWN: AP	IRRIGATION SLIDE GATE DETAIL	STANDARD DRAWING <b>2020</b>
			DATE: 02/08		
DATE	REVISIONS	BY			



**TOP VIEW**  
NOT TO SCALE



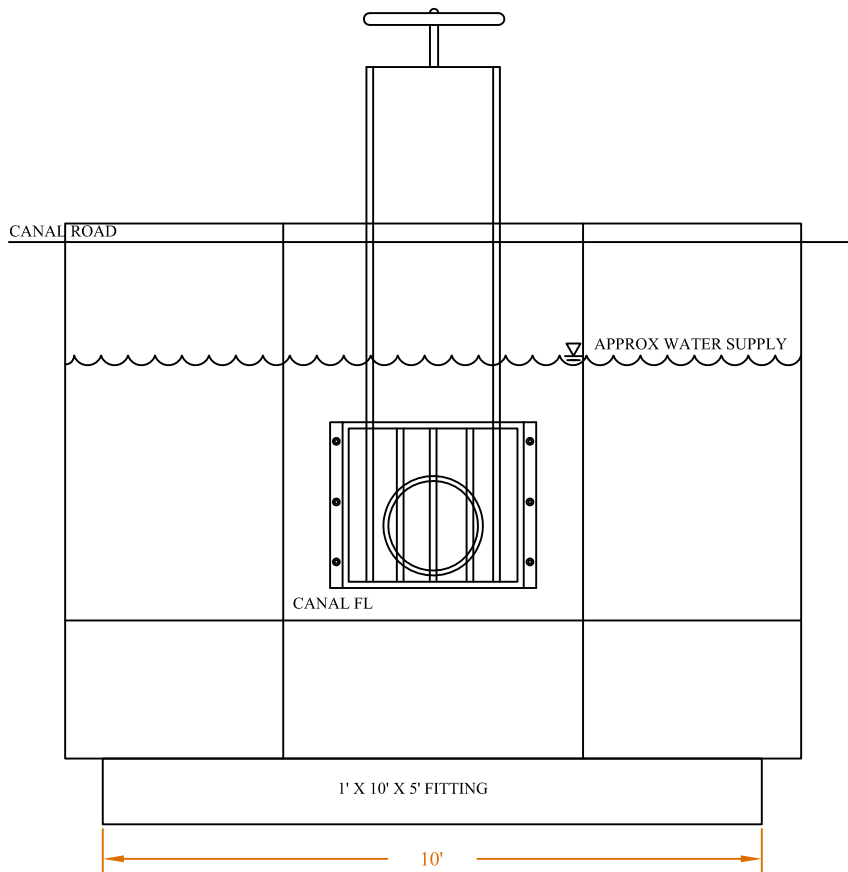
**SIDE VIEW**  
NOT TO SCALE



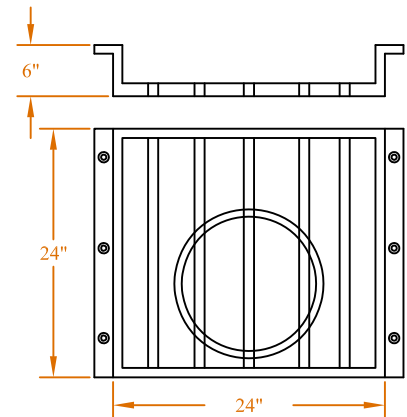
## SOUTH JORDAN CITY

			DRAWN: AP	HEADWALL DETAIL	STANDARD DRAWING 2021
			DATE: 02/08		
DATE	REVISIONS	BY			





**FRONT VIEW**  
NOT TO SCALE



**WEED GRATE**  
NOT TO SCALE

## NOTES

1. ALL ATTACHING BOLTS ARE TO BE 5/8" STAINLESS STEEL.
2. BACKFILL WITH IMPENETRABLE CLAY.
3. ALL MATERIALS AND WORK TO MEET UDOT STANDARDS 96% COMPACTION.
4. CONTROL OUTLET VELOCITY IN ORDER TO KEEP WATER FROM RUNNING OVER EXISTING CONCRETE BOX.
5. INSURANCE. THE CONTRACTOR WORKING ON THE CANAL SHALL OBTAIN AND MAINTAIN DURING THE CONSTRUCTION PERIOD, GENERAL LIABILITY INSURANCE IN THE AMOUNT OF AT LEAST \$1,000,000 (ONE MILLION DOLLARS FOR INJURY, DEATH, OR PROPERTY DAMAGE ARISING OUT OF A SINGLE OCCURRENCE AND WORKMAN'S COMPENSATION INSURANCE AS REQUIRED BY THE STATE OF UTAH. THE COMPANY SHALL REQUIRE THEIR INSURANCE
6. ALL WORK SHALL START AFTER OCTOBER 15TH AND BE COMPLETED BEFORE APRIL 1ST.

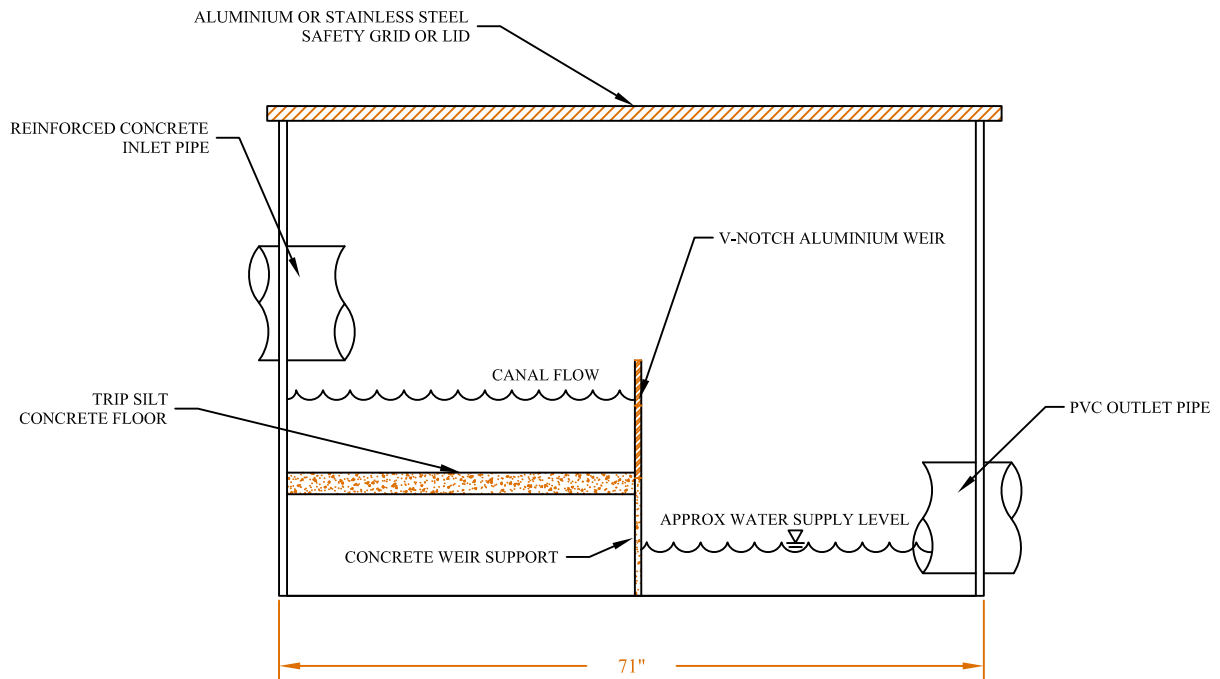


**SOUTH JORDAN CITY**

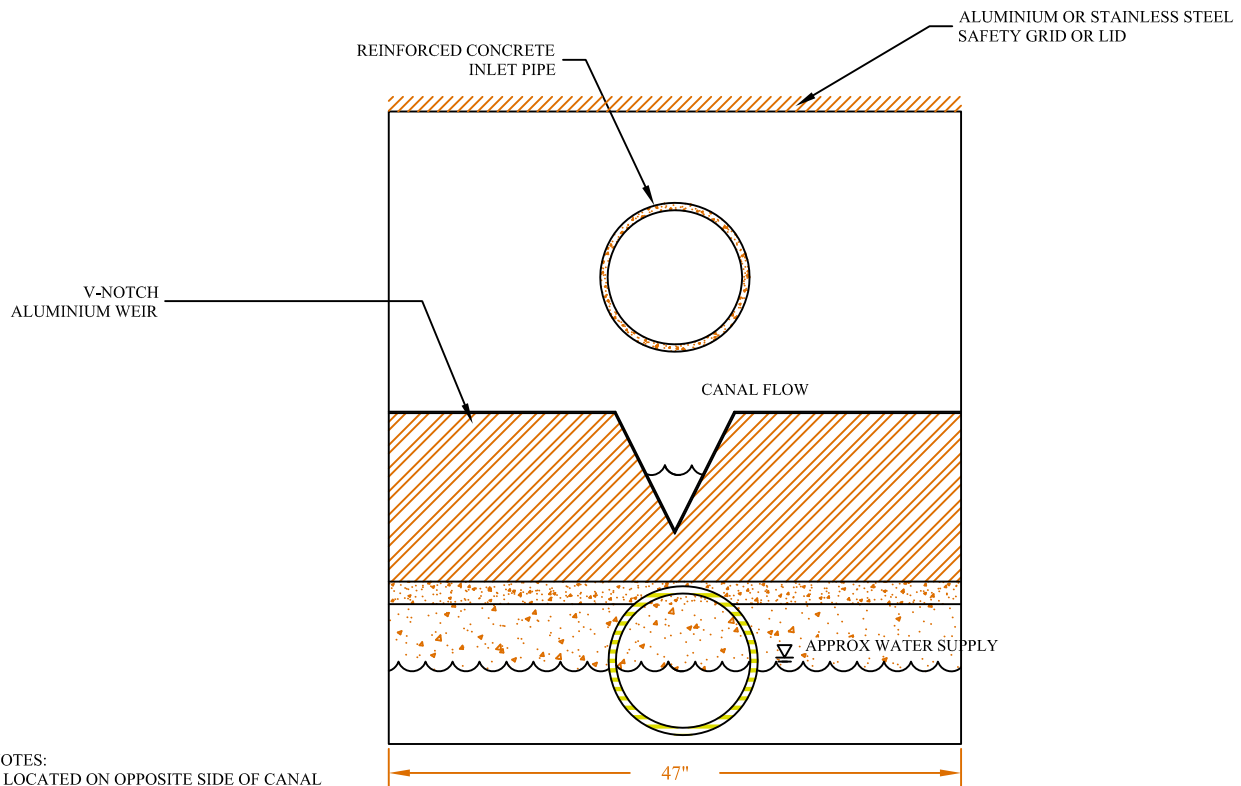
			DRAWN:
			AP
			DATE:
			02/08
DATE	REVISIONS	BY	

**HEADWALL DETAIL**

STANDARD  
DRAWING  
**2022**



**SIDE VIEW**  
NOT TO SCALE



**FRONT VIEW**  
NOT TO SCALE

NOTES:  
1. LOCATED ON OPPOSITE SIDE OF CANAL ROAD AS THE WEIR IS NOT ALLOWED IN BACKYARDS.



**SOUTH JORDAN CITY**

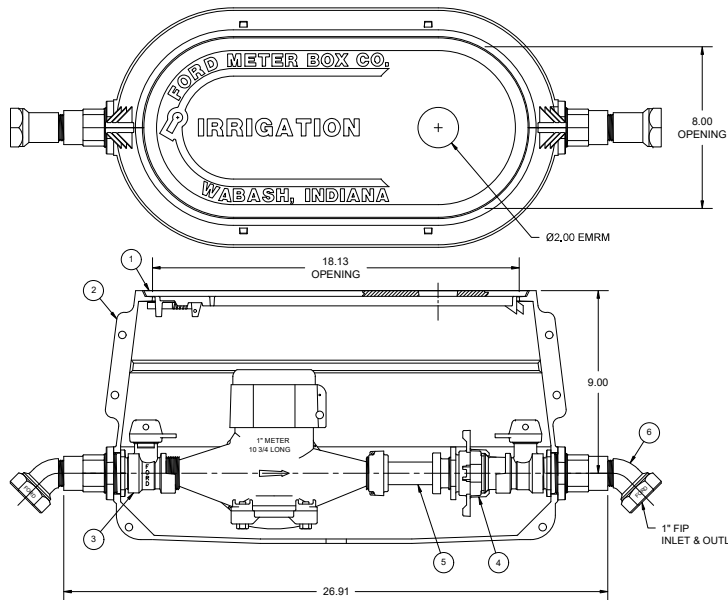
			DRAWN:
			AP
			DATE:
			02/08
DATE	REVISIONS	BY	

**SILT TRAP BOX DETAIL**

STANDARD  
DRAWING  
**2023**

ITEM	DESCRIPTION	QTY	MATERIAL	CATALOG NUMBER
1	LOCKING LID	1	CAST GRAY IRON	LYL-4-IRR-T
2	BOX	1	CAST GRAY IRON	LYBB-4
3	BALL VALVE	2	CAST NO-LEAD BRASS	YBBV13-344W-NL
4	EXPANSION CONNECTION	1	CAST NO-LEAD BRASS	EC-4-NL
5	SPACER	1	COPPER	SPACER-4-DV-NL
6	ELL	2	CAST NO-LEAD BRASS	LA81-44-NL

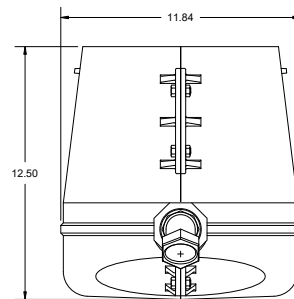
C16171-001



**NOTES:**

BRASS INLET AND OUTLET VALVES ARE ASSEMBLED TO THE BOX.  
(EXPANSION CONNECTION AND SPACER ARE AWT, PACKED  
IN A CARTON, AND SHIPPED INSIDE THE YOKEBOX.)

PROPOSAL  
CIDS: 16171 #1  
DATE: 10/15/19  
INITIAL: RLR



LYLBB111-444-C16171-001-NL

ASSY. 1" LONG YOKEBOX, IRRIGATION, EMRM,  
1" FIP ANGLED INLET & OUTLET,  
LESS CHECK VALVE

TOLERANCES:	UNLESS OTHERWISE SPECIFIED	PATTERN:
XXX ± N/A		CORE(S):
XX ± N/A		EST WEIGHT: ---- LB
XXX ± N/A		SCALE: 1:4
XX ± N/A		SIZE: B
XX ± N/A		DRAWING NO: C16171-001

THE FORD METER BOX CO., INC.  
Wabash, Indiana 46992 U.S.A.

REV.	DATE	CIDS	REVISION DESCRIPTION	KLP	RLR
1	10/11/2019	16171	PROPOSAL #1	DWN	APPR

PREPARED BY: \_\_\_\_\_

SOUTH JORDAN CITY

DATE	REVISIONS	BY

DRAWN:

DATE

3/19

SECONDARY METER BOX

STANDARD  
DRAWING

2024



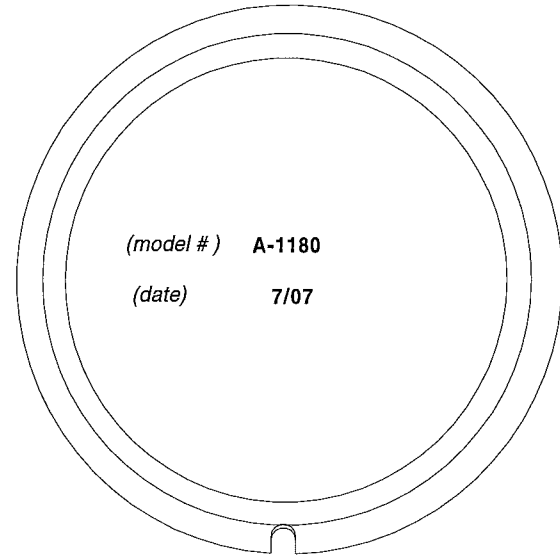
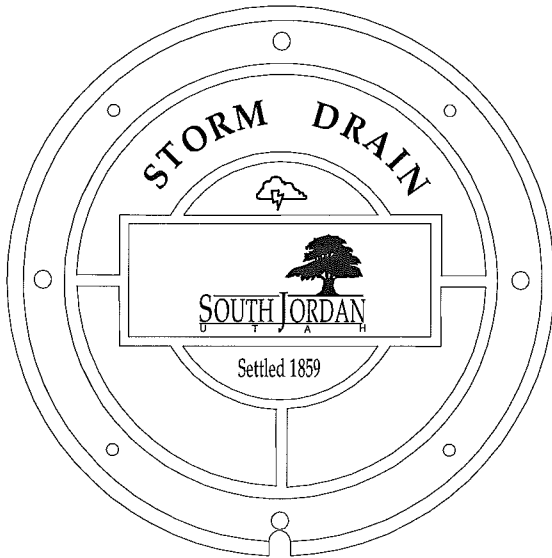
# **STORM DRAIN**

**A-1180**



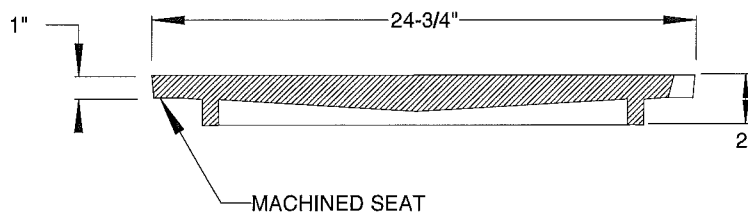
# Storm Drain Manhole Cover

(Platen-bottom cover)



(model #) **A-1180**

(date) **7/07**



COVER EXCEEDS A COMPRESSION TEST OF UP TO 50,000 LBS.

**CAST IRON conforms to**  
ASTM A-48-93 Class 35B  
Meets H-20 Wheel Loading

**D&L model No. A-1180**

**D&L Foundry & Supply**

Designation:

**A-1180**

Date:

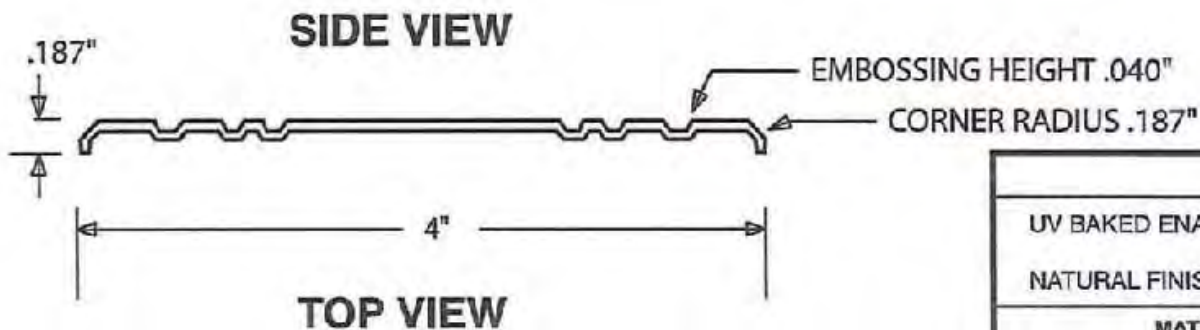
**July 2007**

Prepared by: Jesse Walker

D&L Foundry & Supply Inc. (not to scale)

CA Sales: (707) 557-4525 Fax: (707) 557-4655  
UT Sales: (801) 785-5015 Fax: (801) 785-0835  
WA Sales: (509) 765-7952 Fax: (509) 765-8124






FINISH		
UV BAKED ENAMEL	1-2 COLOR OPTION	
NATURAL FINISH	SAND BLASTED FRONT & REAR FOR PAINT & ADHESIVE BONDING	
MATERIAL	THICKNESS	WEIGHT
304 ANNEALED STAINLESS STEEL	.062"	.218 LBS.
BRASS	.062"	.250 LBS.
ALUMINUM	.062"	.082 LBS.
ANODIZED ALUMINUM	.062"	.082 LBS.
LEGIBILITY WARRANTY		
STAINLESS STEEL & BRASS -30 YEARS		
ALUMINUM & ANODIZED -15 YEARS		
U.S. & FOREIGN PATENTS PENDING		
OPTIONS		
SQUARE HOLE: 1/4" X 1/4"		
SERIAL NOS.: .250" HIGH, MAX. 6 DIGITS		
ENGRAVING COPY: 3 LINES, 30 CHARACTERS		

## ART APPROVAL FORM

This is our interpretation of your artwork requirements. Review for accuracy and note any changes you wish to make before signing this approval form.

NOTE: This art approval request form is required to begin the manufacturing process.

Approved as is	Submit new art with changes	Date
----------------	-----------------------------	------

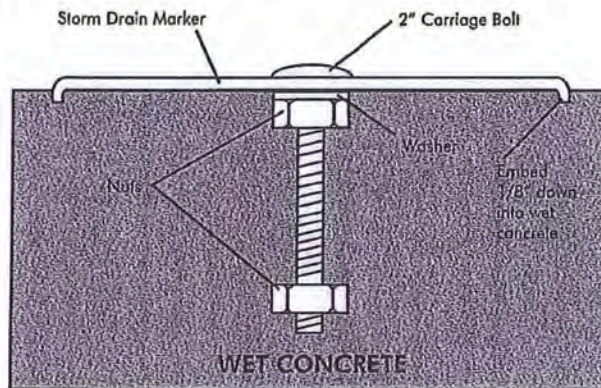
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ALMETEK INDUSTRIES, INC., ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ALMETEK INDUSTRIES, INC. IS PROHIBITED.	Customer:	SOUTH JORDAN CITY	SHEET 1 OF 1 SCALE 1:1		 1-800-248-2080 Fax: 908-850-9618
	Job Name:	STDM-9131-SSP	TOLERANCE		
	Date:	AUGUST 29, 2007	FRACTION	± 1/8"	
			.XX	± .06"	
			.XXX	± .005"	
Drawn by:	DATE	REV. # 2	DATE 11/16/07	REV. #	DATE



# Theft-Resistant Permanent Installations for Storm Drain Markers 30-Year Warranty\*

For Stainless, Brass, Aluminum and Anodized Aluminum

## WET CONCRETE INSTALLATION

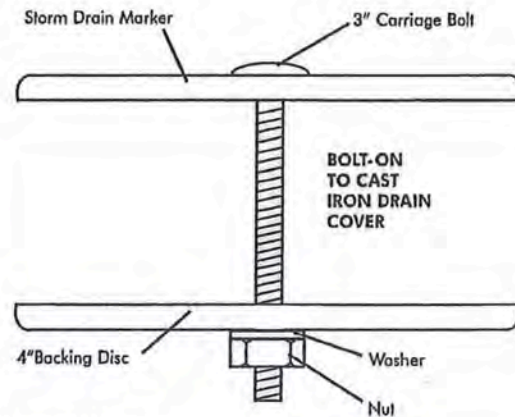


### HARDWARE:

#### CB-2" Set:

- 1- 2" 1/4"-20 SS Carriage Bolt
- 1- 5/16"x5/8" O.D. x .062" thick SS Washer
- 2- 1/4"-20 UNC SS Nuts

## BOLT-ON INSTALLATION



### HARDWARE:

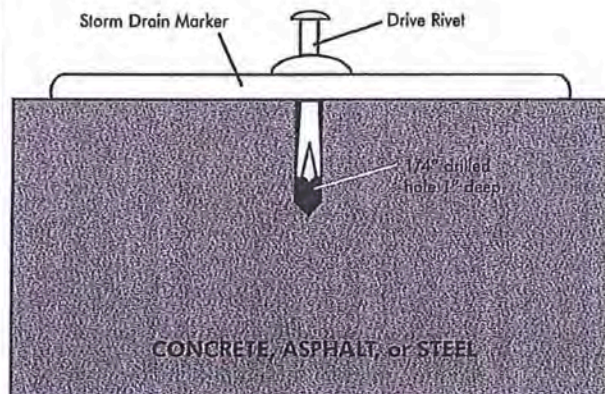
#### CB-3" Set:

- 1- 4" SS Backing Disc
- 1- 3" x 1/4"-20 SS Carriage Bolt
- 1- 5/16" x 5/8" O.D. x .062" thick SS Washer
- 1- 1/4"-20 UNC SS Nut

**NOTE: All 4" Discs have square hole for carriage bolt insertion**

\* After the appropriate installation, if the Marker is stolen or missing, Almetek will replace the Marker and hardware at no cost.

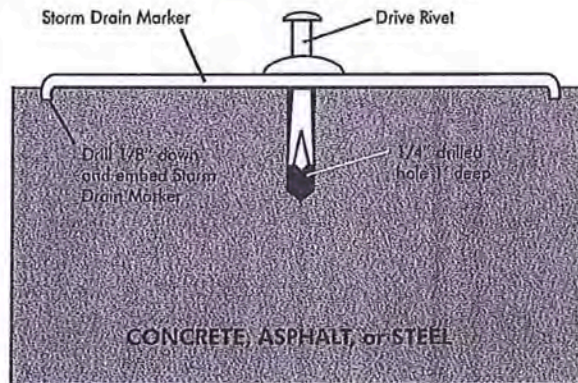
## SURFACE MOUNT INSTALLATION



### HARDWARE:

- 1-DR250-1/4" x 3/4" Drive Rivet-STD
- 1-DB250-1/4" Carbide Drill Bit
- Hammer (not supplied)
- optional: adhesive

## SUB-SURFACE MOUNT INSTALLATION PATENT PENDING



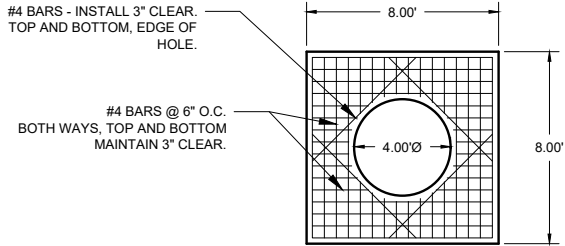
### HARDWARE:

- 1-DR250-1/4" x 3/4" Drive Rivet- STD
- 1-CDB-4-Carbide Drill Bit, Anchor, Pilot (not shown)
- Hammer (not supplied)
- optional: adhesive



Almetek Industries, Inc., 2 Joy Drive, Hackettstown, NJ 07840 • 908-850-9700 • Fax: 908-850-9618  
www.almetek.com • email: csr@almetek.com





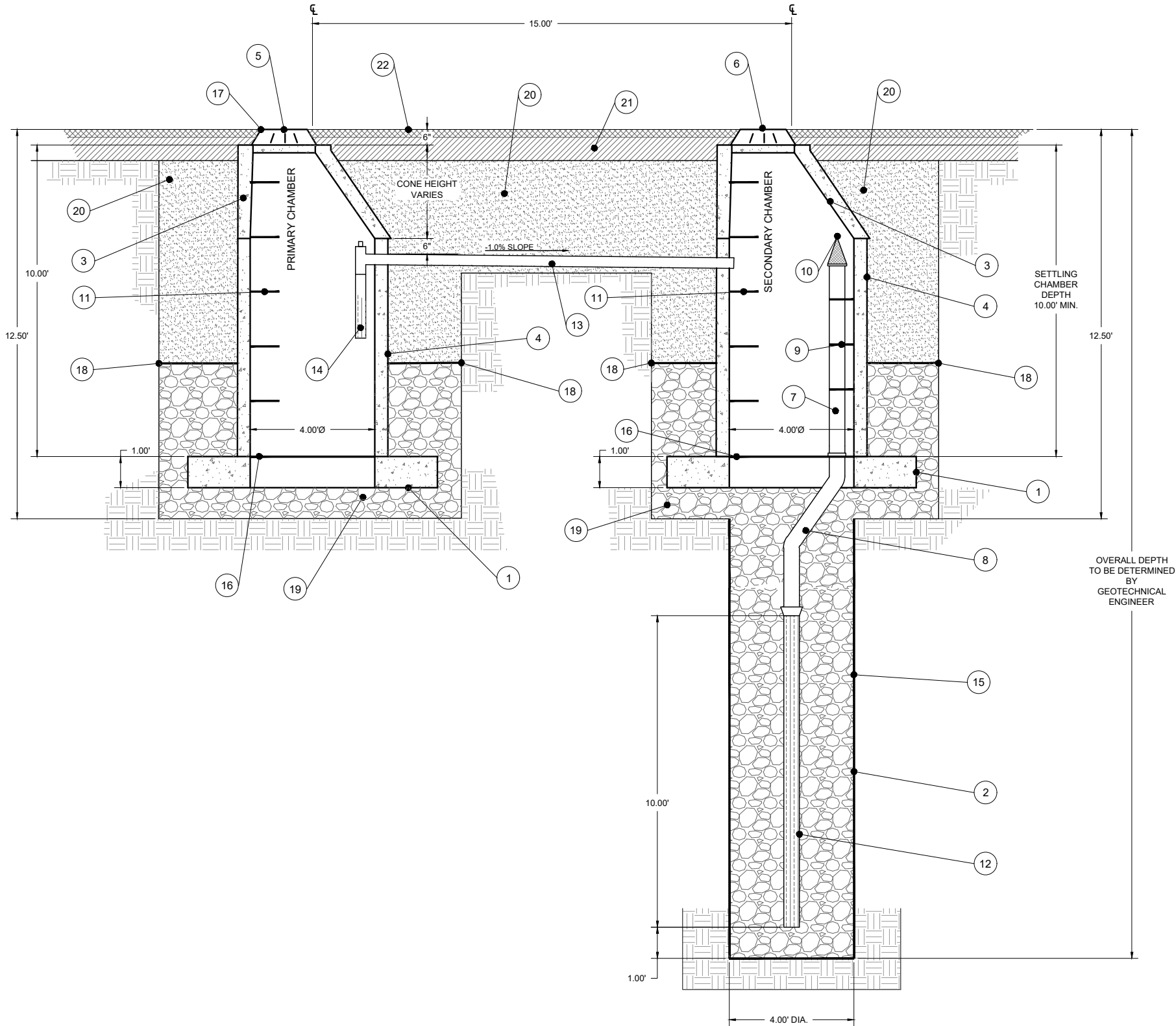
CONCRETE FOOTING

KEYED NOTES

- 1 8-FT X 8-FT X 1-FT REINFORCED CONCRETE FOOTING (SEE DETAIL)
- 2 MIN. 4" DRILLED SHAFT
- 3 MODIFIED FLAT-BOTTOM MANHOLE CONE
- 4 CONCRETE LINER, 4000 PSI 48" I.D. AND 54" O.D., CENTER IN HOLE WITH 2-FT X 2-FT OPENING IN BOTTOM FOR DRAINAGE
- 5 MIN. 30" DIA BOLTED CAST IRON RING AND GRATE
- 6 MIN. 30" DIA BOLTED CAST IRON RING AND SOLID SOUTH JORDAN CITY STORM DRAIN COVER
- 7 6" DIA SCH 40 PVC OVERFLOW PIPE
- 8 6" DIA DR-14 FUSED HDPE PIPE
- 9 SUPPORT BRACKET (TYP), FORMED 12 GA STEEL, FUSION BONDED EPOXY COATED
- 10 6" DIA CONE SHAPED SCREEN
- 11 LADDER RUNGS
- 12 6" DIA SLOTTED DR-14 FUSED HDPE PIPE
- 13 4" DIA SCH 40 PVC CONNECTOR PIPE W/ VENTED ANTI-SIPHON INTAKE & FLOW REGULATOR, PIPE TO BE FULLY CAPPED UNTIL BASIN FULLY VEGETATED OR AS APPROVED BY CITY ENGINEER.
- 14 4" DIA 1" LONG SLOTTED SCH 40 PVC INTAKE SCREEN
- 15 NON-WOVEN GEOTEXTILE FABRIC MIRF1 140 NL. OR APPROVED EQUALL. FABRIC TO BE DIAMETER OF HOLE, HELD APPROX 15' OFF THE BOTTOM OF EXCAVATION.
- 16 (2) LAYERS OF NON-WOVEN GEOTEXTILE FABRIC MIRAF1 140 NL. OR APPROVED EQUALL. PLACED AFTER OVERFLOW PIPE HAS BEEN INSTALLED
- 17 FABRIC SEAL, UV RESISTANT GEOTEXTILE. COVER GRATE UNTIL PAVING AND OR LANDSCAPING IS COMPLETE.
- 18 (2) LAYER OF FILTER FABRIC
- 19 1" TO 1-1/2" WASHED ROCK
- 20 A1A TO A2.7 COMPACTED BACKFILL TO 96%
- 21 COMPACTED BASE MATERIAL
- 22 GRADED BASIN, CITY VAC TRUCK ACCESS TO BE PROVIDED AT A MIN HORIZONTAL DISTANCE OF 15' AND NO MORE THAN 8% INCLINE FROM EACH MANHOLE LID

NOTES

- 1. PRIMARY CHAMBER REQUIRED ON ALL DRY WELL SYSTEMS.
- 2. NO OUTSIDE PIPE CONNECTIONS TO PRIMARY OR SECONDARY CHAMBERS. ONLY SURFACE DRAINAGE IS ALLOWED
- 3. PERCOLATION TEST TO BE PERFORMED AFTER FINAL INSTALLATION OF DRY WELLS AND LANDSCAPING.



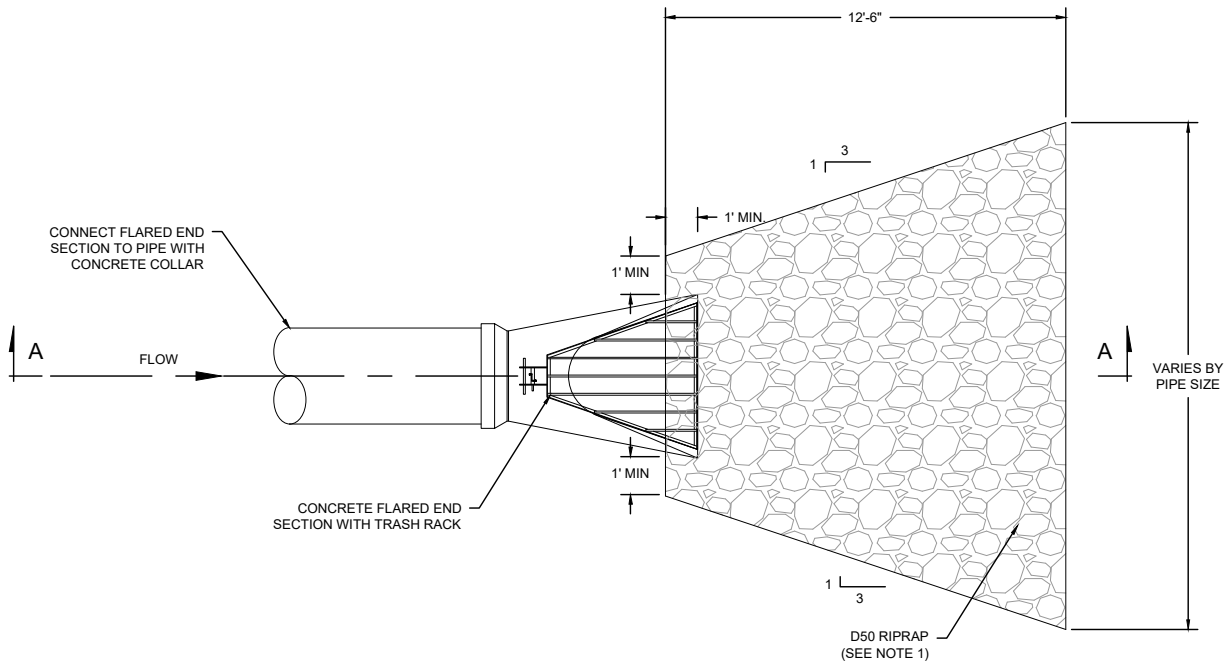
DRY WELL SYSTEM

REVISION COMMENTS	
NO.	DATE

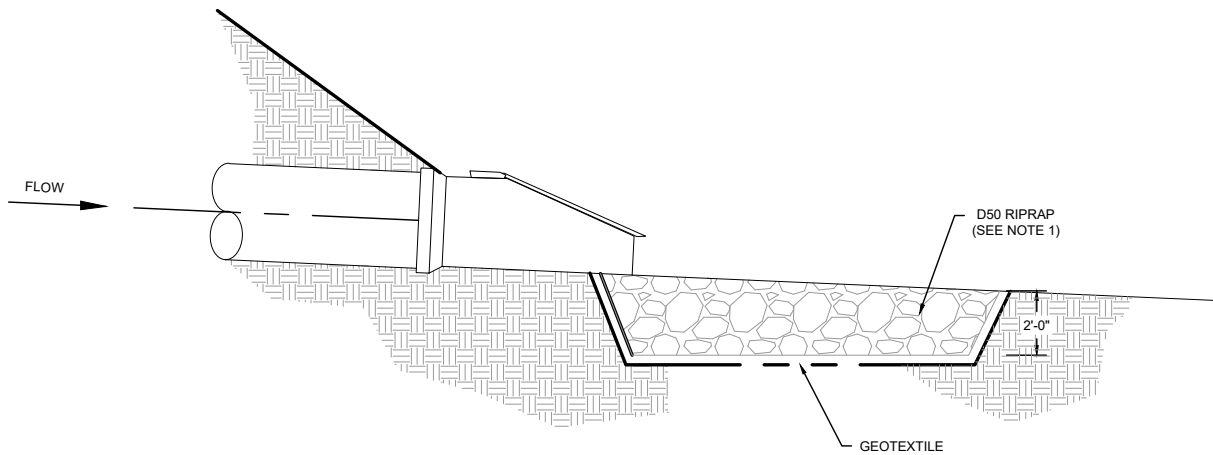


SOUTH JORDAN CITY  
DRYWELL SYSTEM DETAIL  
AND SPECIFICATIONS

Project No:	JWH	Designed By:	JWH
Drawn By:	JWH	File Name:	
Checked By:		Date:	1/7/16



PLAN



SECTION A

NOTES

1. RIPRAP TO BE 12-IN MIN FOR 18-IN PIPE AND 24-IN AND LARGER PIPE TO REQUIRE 18-IN MIN RIPRAP

PREPARED BY: \_\_\_\_\_



**SOUTH JORDAN CITY**

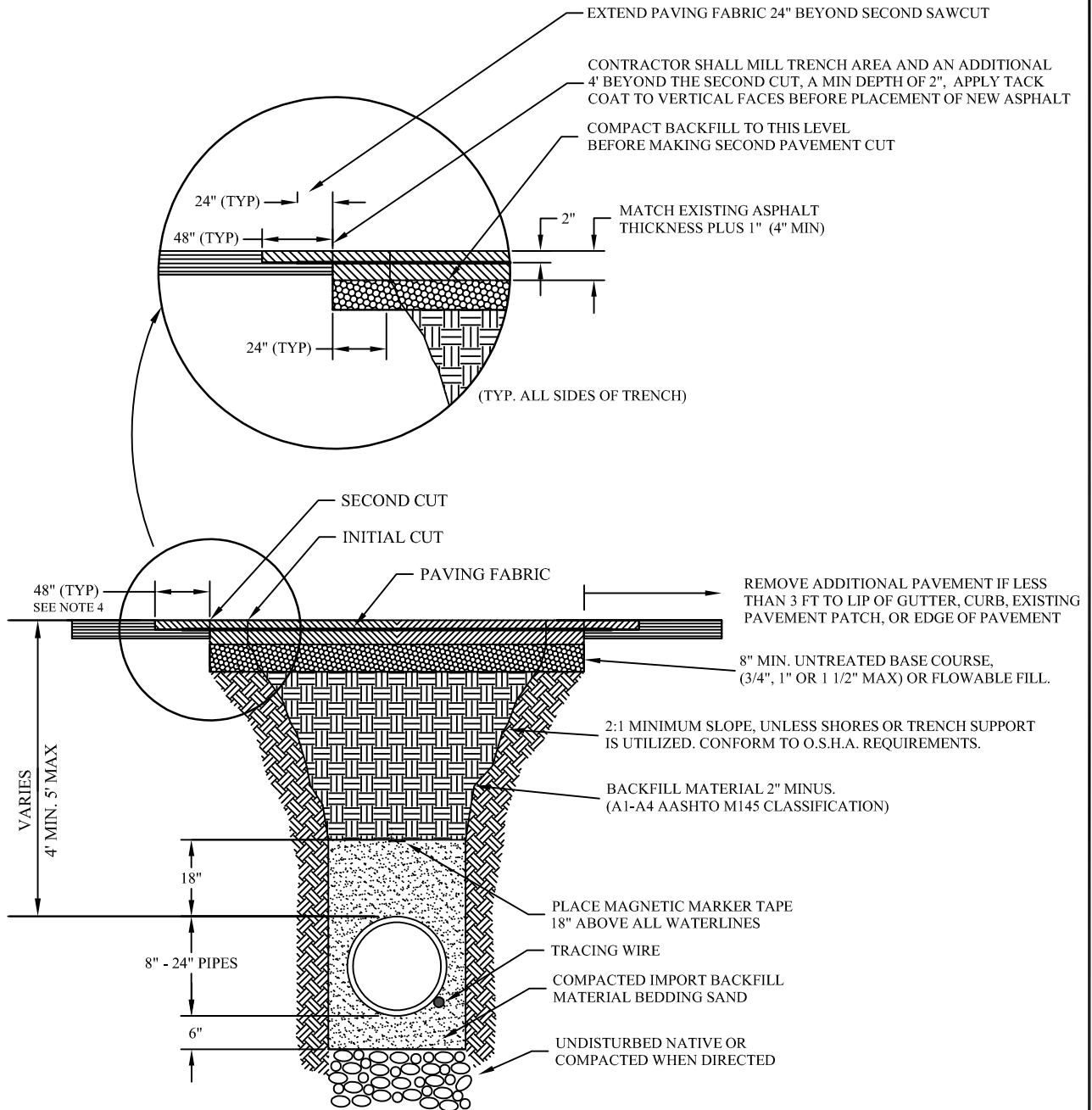
DATE	REVISIONS	BY	DRAWN:
			JWH
			DATE
			2/21

**RIPRAP APRON DETAIL**

STANDARD  
DRAWING

**4015**

**STREETS**



NOTES:

1. NO SAW CUTS TO END UP IN THE WHEEL PATH
2. AFTER THE SECOND CUT, PATCH TRENCH UP TO THE EXISTING ROAD SURFACE THEN MILL THE TRENCH AREA AND AN ADDITIONAL 4 FT BEYOND THE SECOND CUT OR AS DIRECT BY THE CITY ENGINEER ACCORDING TO CITY STANDARDS.
3. PAVING FABRIC PER APWA STANDARD ROADWAY PAVEMENT GEOTEXTILE, NON-WOVEN
4. IF THE OCI RATING OF THE ROAD IS BETWEEN 80 AND 100, THE 48" WILL BE INCREASED TO FULL WIDTH OF ROAD, OR AS DETERMINED BY THE CITY ENGINEER OR DESIGNEE.

PREPARED BY: \_\_\_\_\_

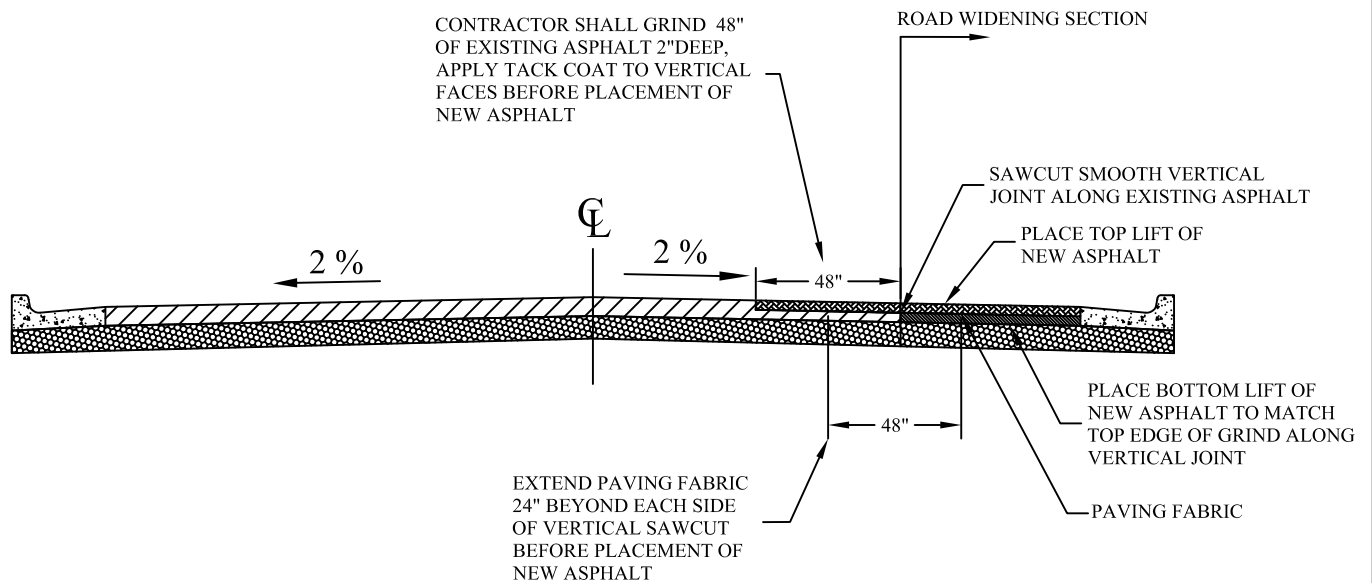


**SOUTH JORDAN CITY**

DATE	REVISIONS	BY	DRAWN
04/11		JRF	KS
			DATE
			1/06

**TRENCH CROSS SECTION  
TERMINOLOGY & STANDARD SIZES**

STANDARD  
DRAWING  
**3010**



NOTE: PER CITY STREET REPAIR / REPAVING POLICY, IF CONSTRUCTION PLANS DO NOT REQUIRE REMOVAL OF EXISTING ROADWAY TO CENTERLINE CONTRACTOR SHALL JOIN NEW PAVEMENT PER THIS STANDARD

PREPARED BY: \_\_\_\_\_



**SOUTH JORDAN CITY**

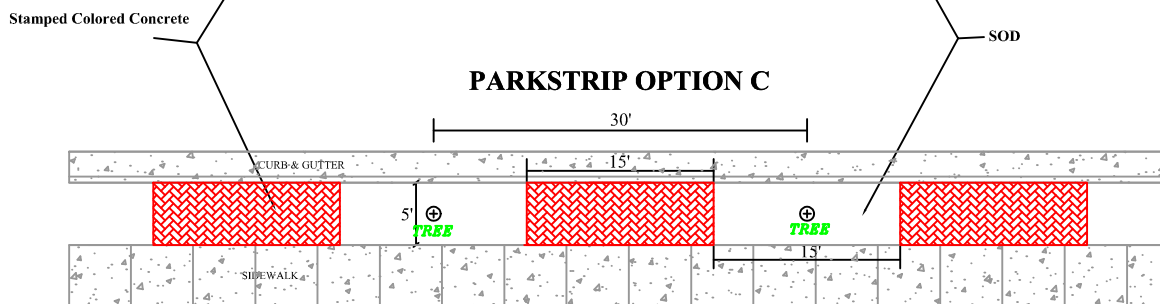
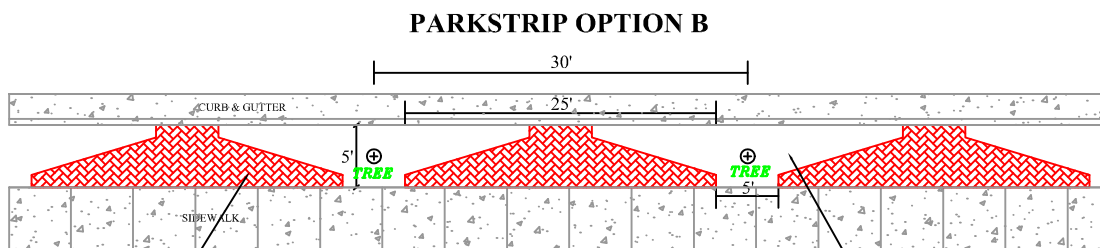
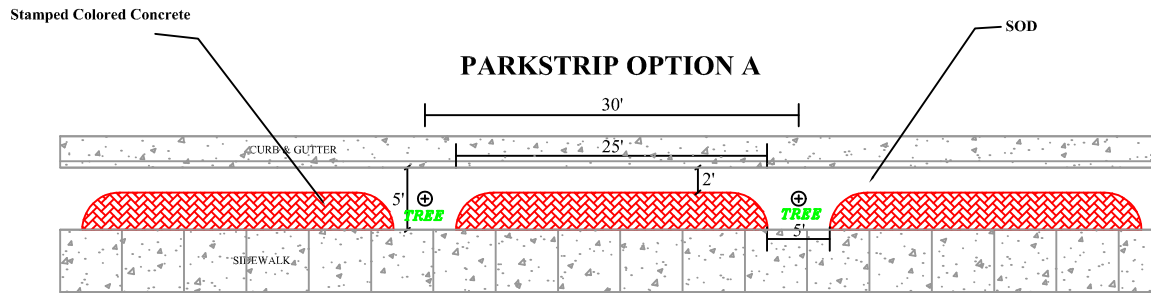
			DRAWN:
			KS
			DATE
			1/06
DATE	REVISIONS	BY	

**ROAD WIDENING**

STANDARD  
DRAWING

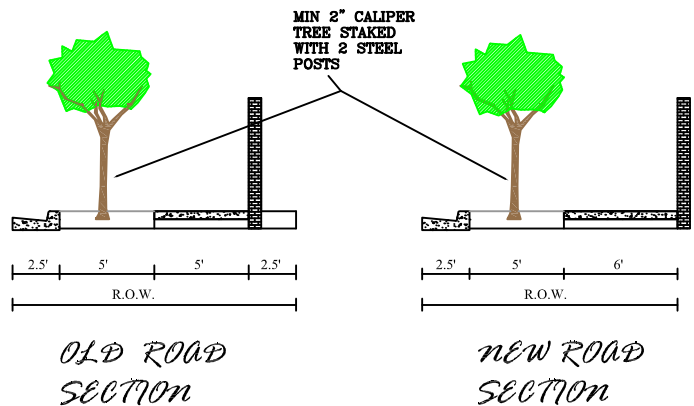
**3012**





NOTE: ALL PLANTED AREAS MUST BE EQUIPPED WITH AN IRRIGATION SYSTEM.

DETAIL FOR ALL TREES, SOD, IRRIGATION  
SYSTEM AND CONCRETE TO BE  
SUBMITTED FOR REVIEW AND APPROVED  
BY THE CITY PRIOR TO INSTALLATION.  
STAMPED CONCRETE WILL BE COLORED  
DARK RED OR GREY AND SEALED.



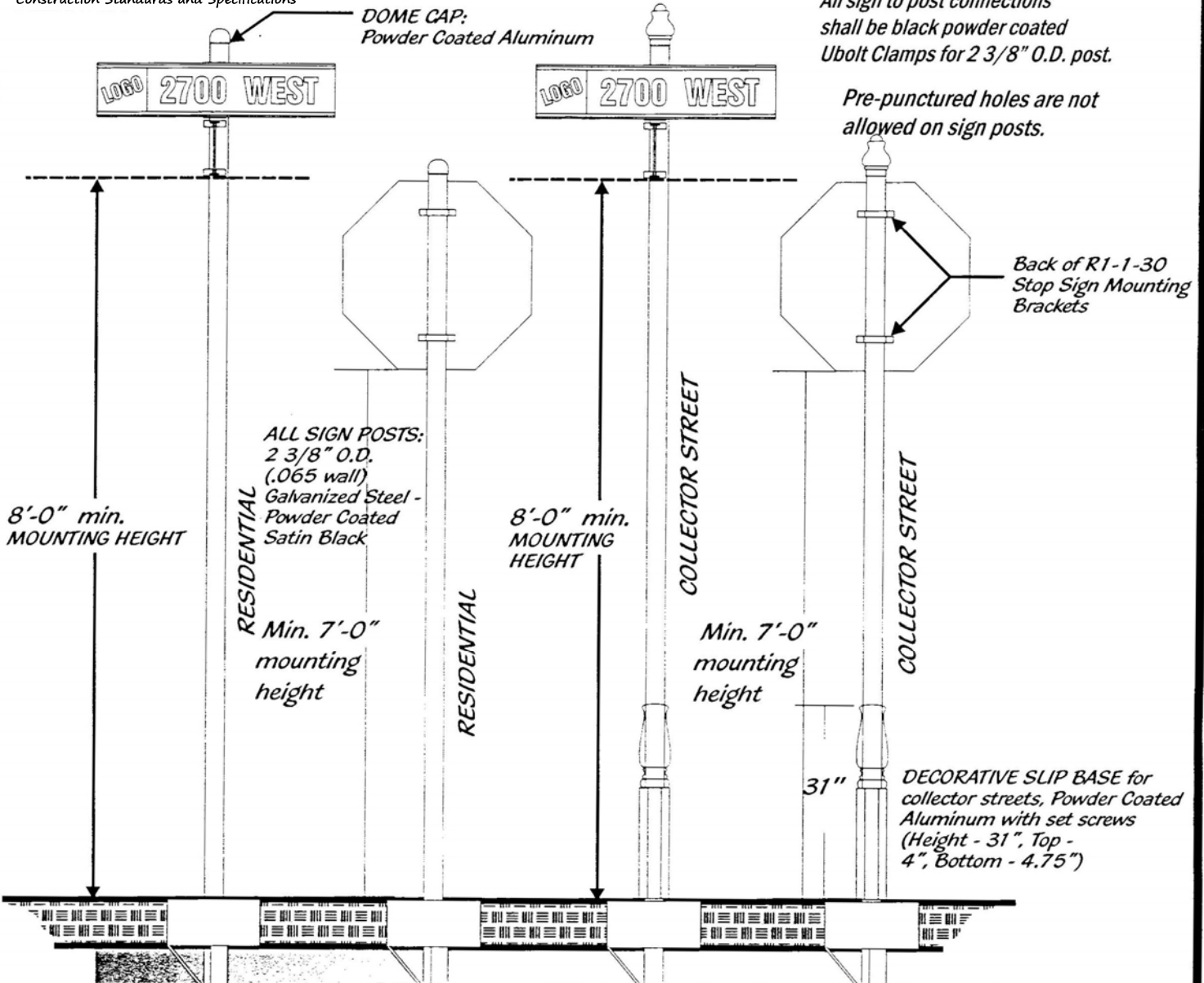
# South Jordan City Sign Post, Sign Hardware Standard Drawing

For minimum sign dimensions and letter heights refer to section 7.7.C. of the South Jordan City Construction Standards and Specifications

**DOMES CAP:**  
Powder Coated Aluminum

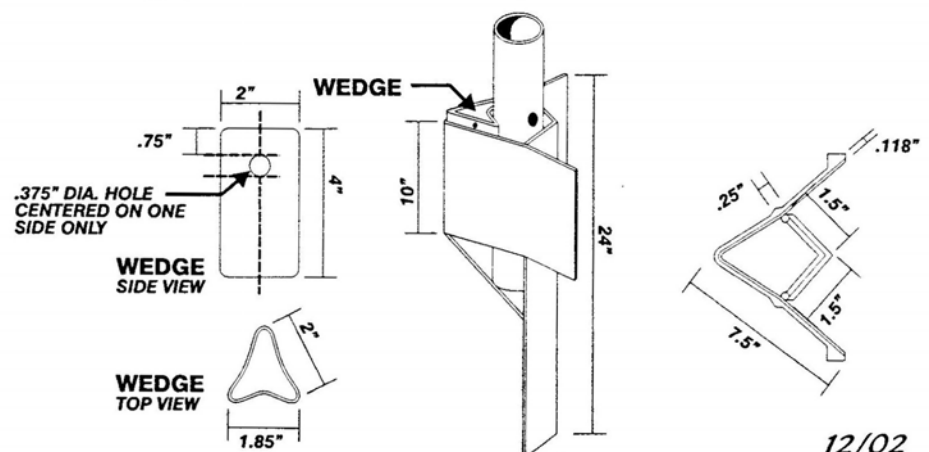
All sign to post connections shall be black powder coated Ubolt Clamps for 2 3/8" O.D. post.

Pre-punctured holes are not allowed on sign posts.



**NOTE:** All sign post material shall meet the following: Post material ASTM-A653, G90, HSLAS, Type B, 55,000 min Y.S. and 70,000 T. S. , approved by F.H.W.A. and ASHTO under current NCHRP Report #350. Post, cap and decorative base to be powder coated satin black.

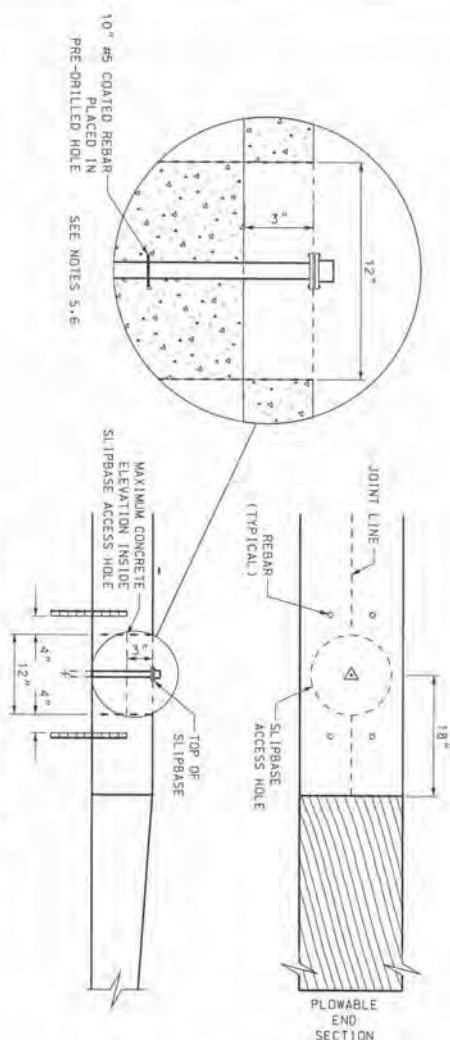
## V-LOC ANCHOR SPECIFICATIONS



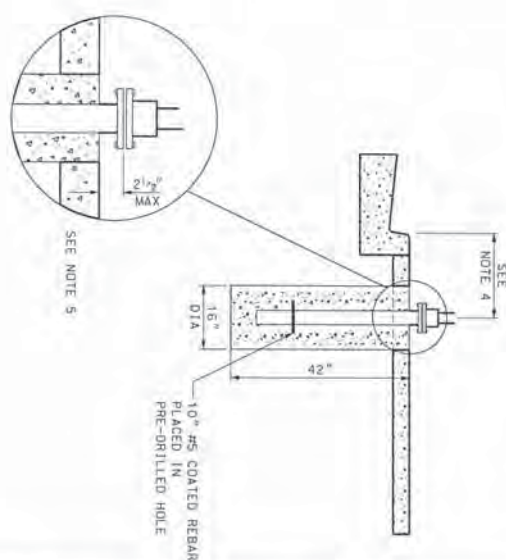
12/02



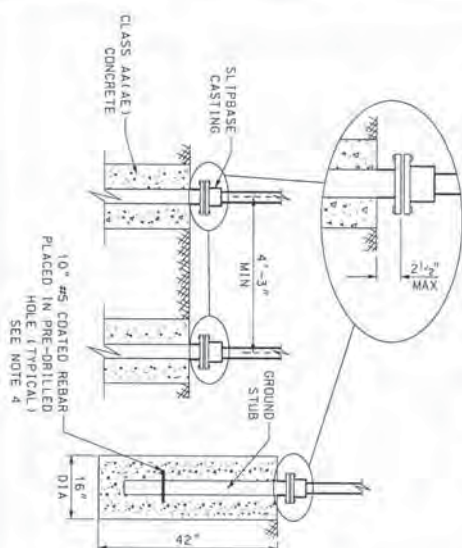
SLIPBASE DETAIL FOR RAISED ISLAND



## SLIPBASE DETAIL FOR SIDEWALK



**SLIPBASE GROUND STUB FOUNDATION DETAIL  
APPLIES TO SINGLE AND DOUBLE POST APPLICATIONS**



SIGN WIDTH (FT)													SIGN HEIGHT (FT)								
			2	2-5	3	4	5	6	7	8	9	10	1	2	2-5	3	4	5	6	7	
						P3	P3						P3	P3							
						P3	P3						P3	P3							
													P3	P3							
													P4	P4							
													P3	P4	P4						
													P3	P3	P4	P4	P5				
													P3	P3	P4	P4	P5	P5			
													P3	P3	P4	P4	P5	P5	P5		
													P3	P3	P4	P4	P5	P5	P5	P5	

\*1" OR "U" BRACKET  
RECOMMENDED FOR SIGNS  
GREATER THAN 4 FEET WIDE

	SIGN HEIGHT(FT)										POST SELECTION GUIDE DOUBLE POST APPLICATION
B	A	<b>SIGN WIDTH ( FT )</b>									
7	8	5	6	7	8	9	10				
6	5	P4	P4	P4	P5	P5	P5				
			P4	P5	P5	P5	P5				
				P4	P5	P5	P5				
					P5	P5	P5				

## NOTES:

1. REFER TO STD DWG SN 10A FOR POST REQUIREMENTS.
2. REFER TO STD DWG SN 13 SERIES FOR MOUNTING AND HARDWARE REQUIREMENTS.
3. WHEN INSTALLING A SUPPLEMENTAL SIGN DO NOT EXCEED MAXIMUM SQUARE FOOTAGE OF SINGLE POST APPLICATION BY MORE THAN 50%. (EX: POST PS MAX. SIGN SIZE  $5'W \times 6'H = 30 \text{ SQ. FT.} + 25\% = 37.5 \text{ SQ. FT.}$ ,  $1.5'W \times 6'H = 14.3'W \times 2.5'H = 37.5'$ ).
4. REFER STD DWG SN 7A FOR HEIGHT AND OFFSET REQUIREMENTS.
5. CORE DRILL SLIPBASE HOLE. INSTALL AFTER PLACEMENT OF FINISHED GRADE OR CONCRETE OR ASPHALT.
6. ISLAND INSTALLATION: PLACE TOP OF SLIPBASE SLAB FLUSH WITH TOP OF THE ISLAND WITH A TOLERANCE OF  $\pm 1/8"$  (DO NOT PLACE BELOW TOP OF CURB).

STD DWG  
SN 108

SLIPBASE  
SIGN BASE (B3)  
INSTALLATION

STANDARD DRAWING TITLE

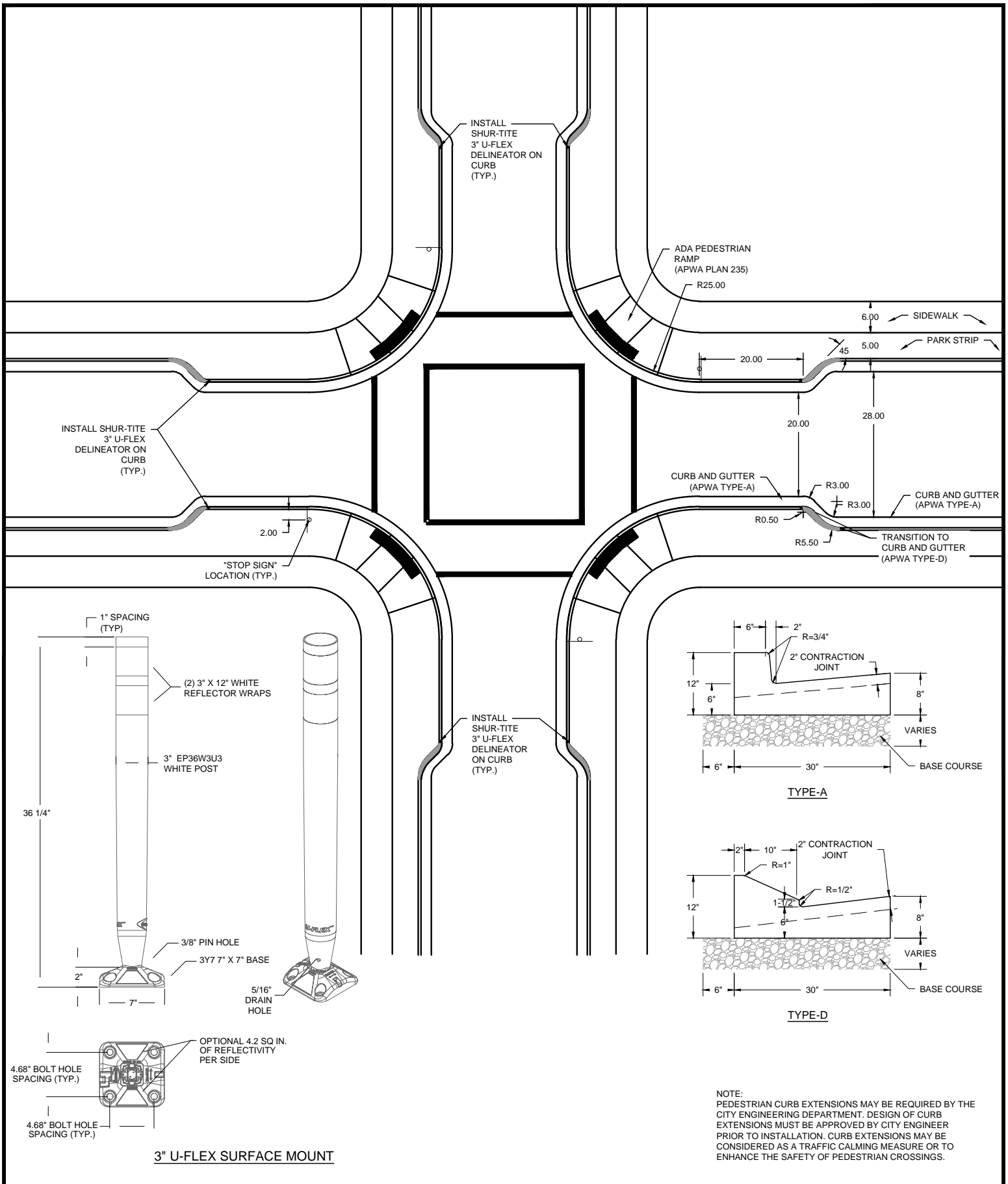
UTAH DEPARTMENT OF TRANSPORTATION  
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

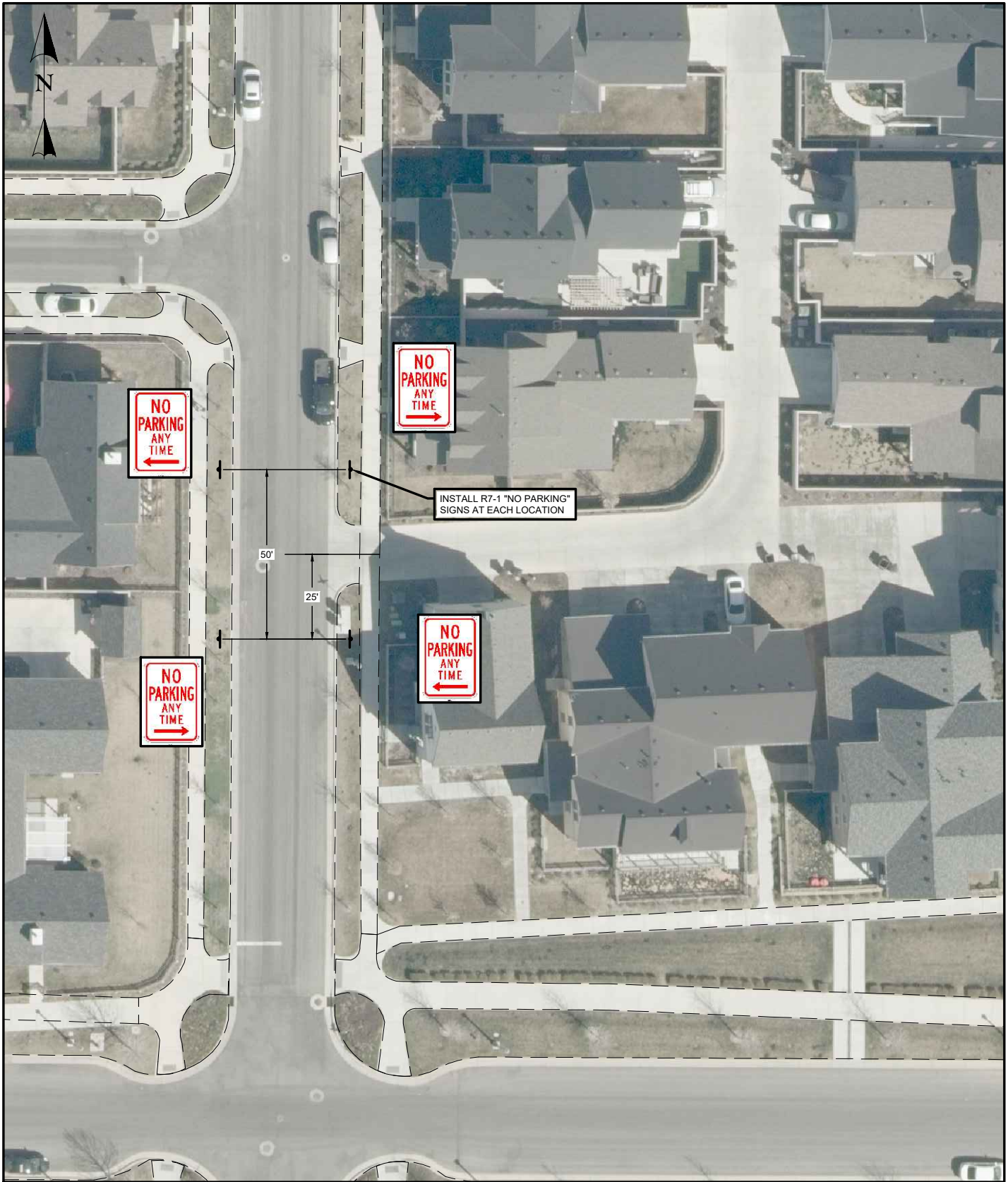
RECOMMENDED FOR APPROVAL  
CHAIRMAN STANDARDS COMMITTEE  
APPROVED  
DEPUTY DIRECTOR

JAN.01,2008  
DATE  
JAN.01,2008  
DATE

## REVISIONS

NO	DATE	APPR	REMARKS
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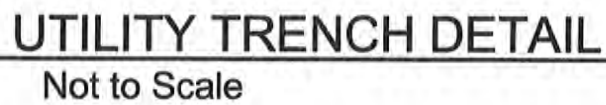




Applicable at the entrance to dead end alleyways and lanes, that form a T intersection.

# **STREET LIGHTS**





IN USA

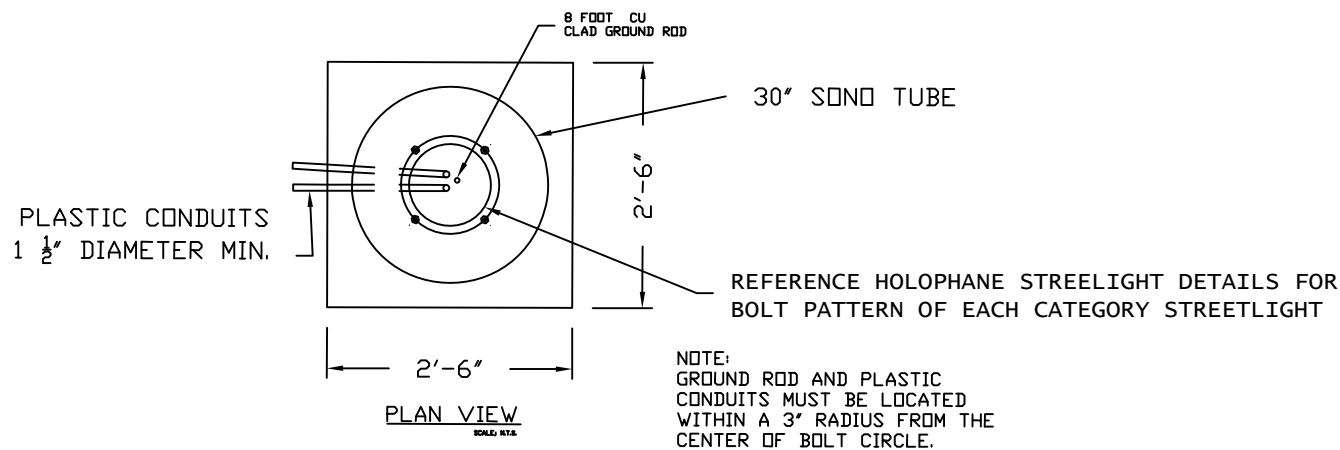
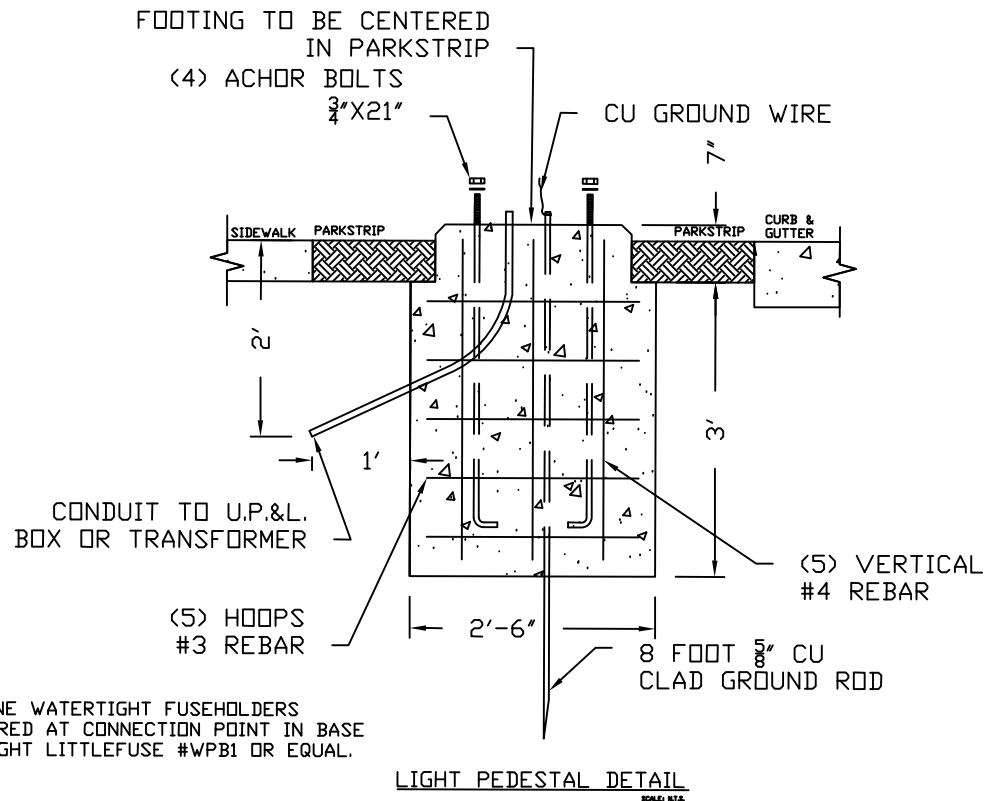
MADE



Electric

LIFT

HERE

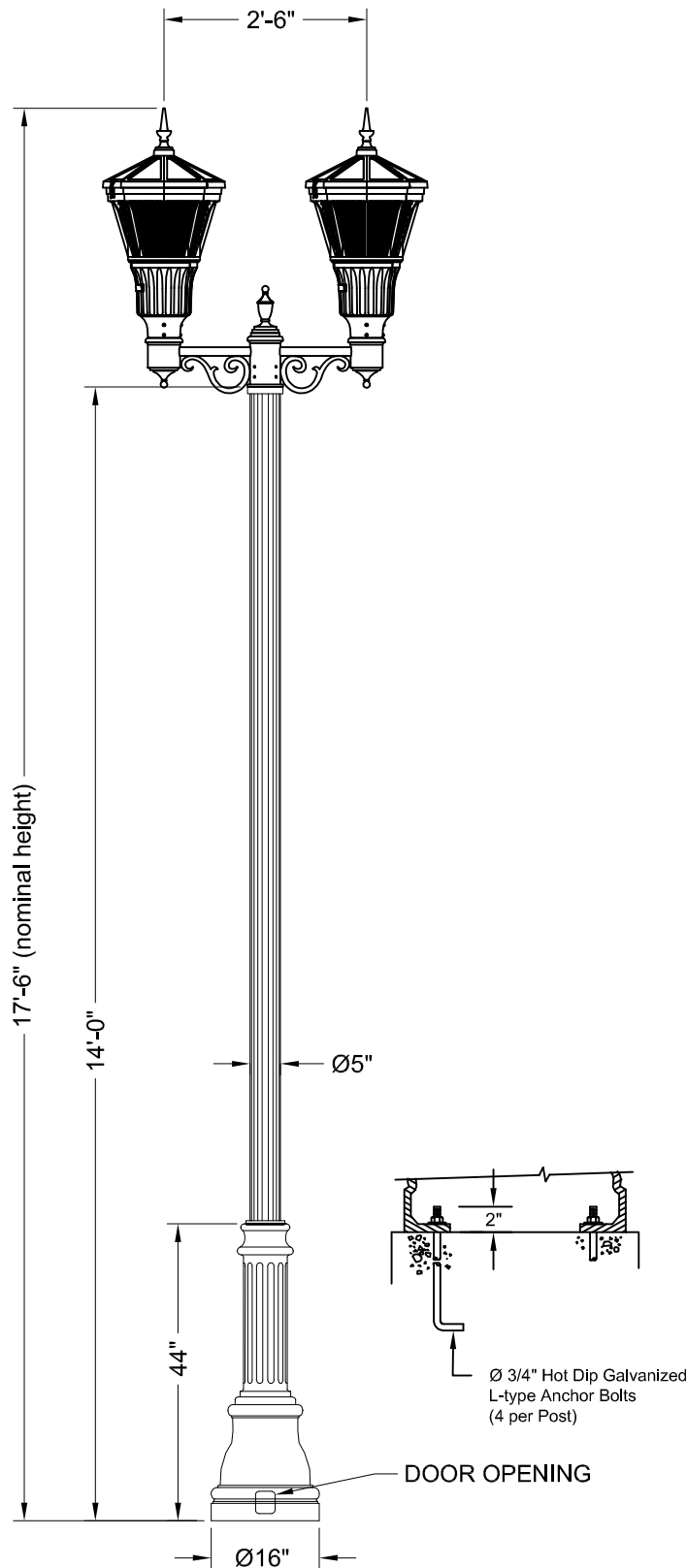


NO.	DATE	REVISION COMMENTS



Streetlight Pedestal  
Category 1, 2, 3 & 4

Project No. _____	Design by: _____	CR _____
Drawn by: _____	File Name: _____	Date: _____
Checked by: _____		



## Specifications

### POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design. The shaft shall be Ø5" fluted.

### MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

### CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-90.

### DIMENSIONS

The post shall be 14'-0" in height with an 16" diameter base. The shaft diameter shall be 5". At the top of the post, a tenon with a transitional donut shall be provided for arm mounting.

### INSTALLATION

The post shall use four L-type anchor bolts installed on an Ø12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

### FINISH

The assembly shall be Holophane black powder coat

### LUMINAIRE

- Utility Arlington LED
- 100W 4k CCT
- Auto-sensing 120-277V
- Asymmetric Glass Refractor, Spike Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277V

For complete specifications see LUM\_ARUE.

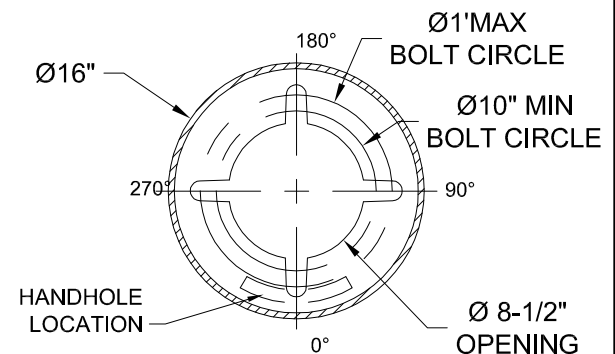
### OPTICAL SYSTEM

Refractor is a thermal resistant borosilicate glass lens to provide an I.E.S. Type III distribution. Acrylic and polycarbonate lens are not acceptable. The optical system in conjunction with a polished reflector and LED circuit board with dedicated heat sink create a sealed optical compartment.

### ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.

### Anchorage Detail



### Catalog #s:

ARUE1004KASG3BSHL25PCS - CSC30CABKH - CHA14F5J16P05ABGBK

### Customer Signature



## South Jordan Category 1a

ORDER #:	TYPE: Cat 1A	DRAWING #:
REVISION:	REVISION DATE:	TSG 007077
DRAWN: ACH	ORIGIN DATE:	PAGE: 1 of 1

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.



# Specifications

## POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design. The shaft profile will consist of 4 mounting tracks and internal passages as shown.

## MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

## CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-90.

## DIMENSIONS

The post shall be 14'-0" in height with a 16" diameter base. The shaft diameter shall be 5" at the top of the post, a tenon with a transitional donut shall be provided for arm mounting.

## INSTALLATION

The post shall use four L-type anchor bolts installed on a 12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

## FINISH

The assembly shall be Holophane black powder coat

## LUMINAIRE DESCRIPTION

- Utility Arlington LED
- 100W 4K CCT
- Auto-Sensing 120-277v
- Asymmetric Glass Refractor, Spike Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277v

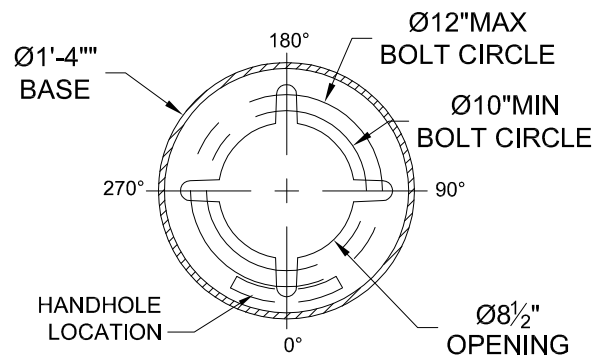
## OPTICAL SYSTEM

Refractor is a thermal resistant borosilicate glass lens to provide an I.E.S. Type III distribution. Acrylic and polycarbonate lens are not acceptable. The optical system in conjunction with a polished reflector and LED circuit board with dedicated heat sink create a sealed optical compartment.

## ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.

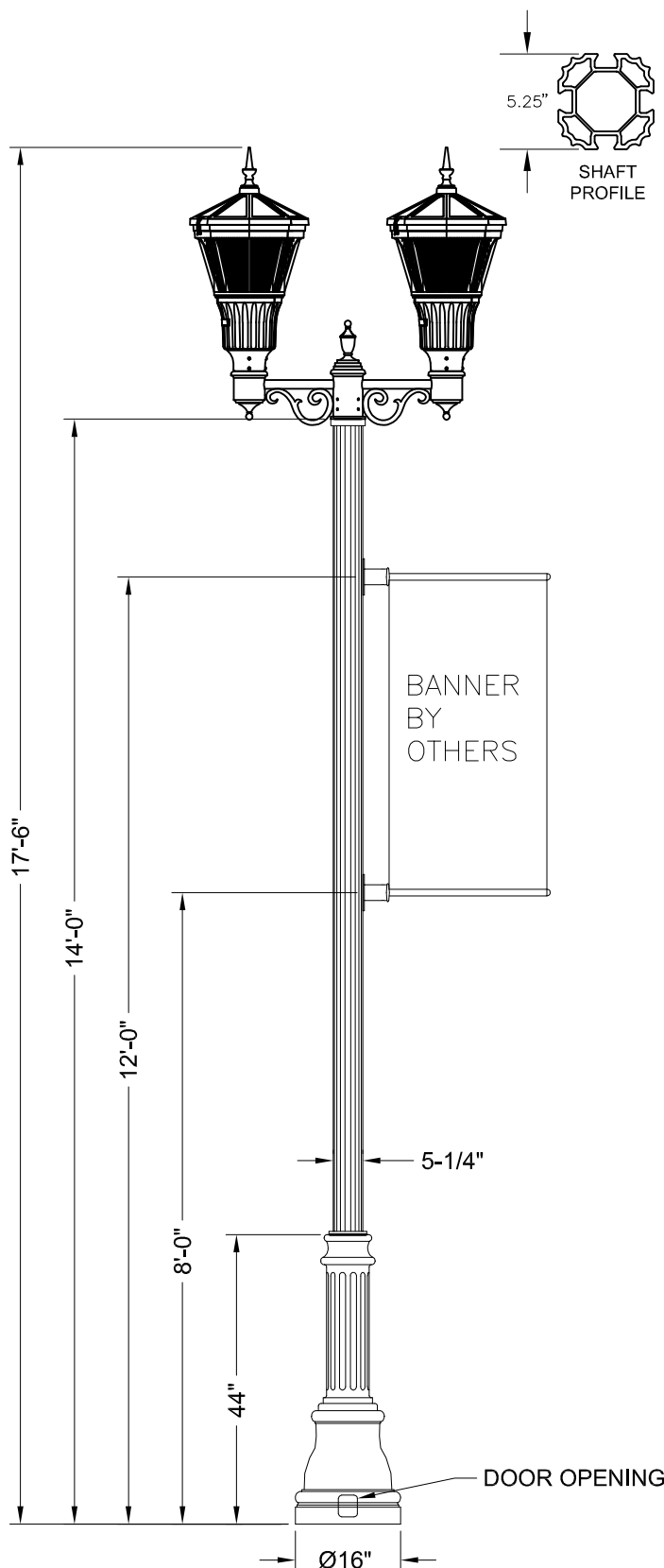
## Anchorage Detail



## Catalog #s:

ARUE1004KASG3BSHL25PCS - CSC30CABKH-CHA14L5J16P05ABGBK-BA24L45A4BK

## Customer Signature



## South Jordan Category 1b

ORDER #:	TYPE: Cat 1b	DRAWING #:
REVISION:	REVISION DATE:	TSG 002636
DRAWN:	ORIGIN DATE:	PAGE: 1 of 1

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

# Specifications

## POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design. The shaft profile will consist of 4 mounting tracks and internal passages as shown.

## MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

## CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-9.0

## DIMENSIONS

The post shall be 14'-0" in height with a 16" diameter base. The shaft diameter shall be 5" at the top of the post, a tenon with a transitional donut shall be provided for arm mounting.

## INSTALLATION

The post shall use four L-type anchor bolts installed on a 12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

## FINISH

The assembly shall be Holophane black powder coat

## LUMINAIRE DESCRIPTION

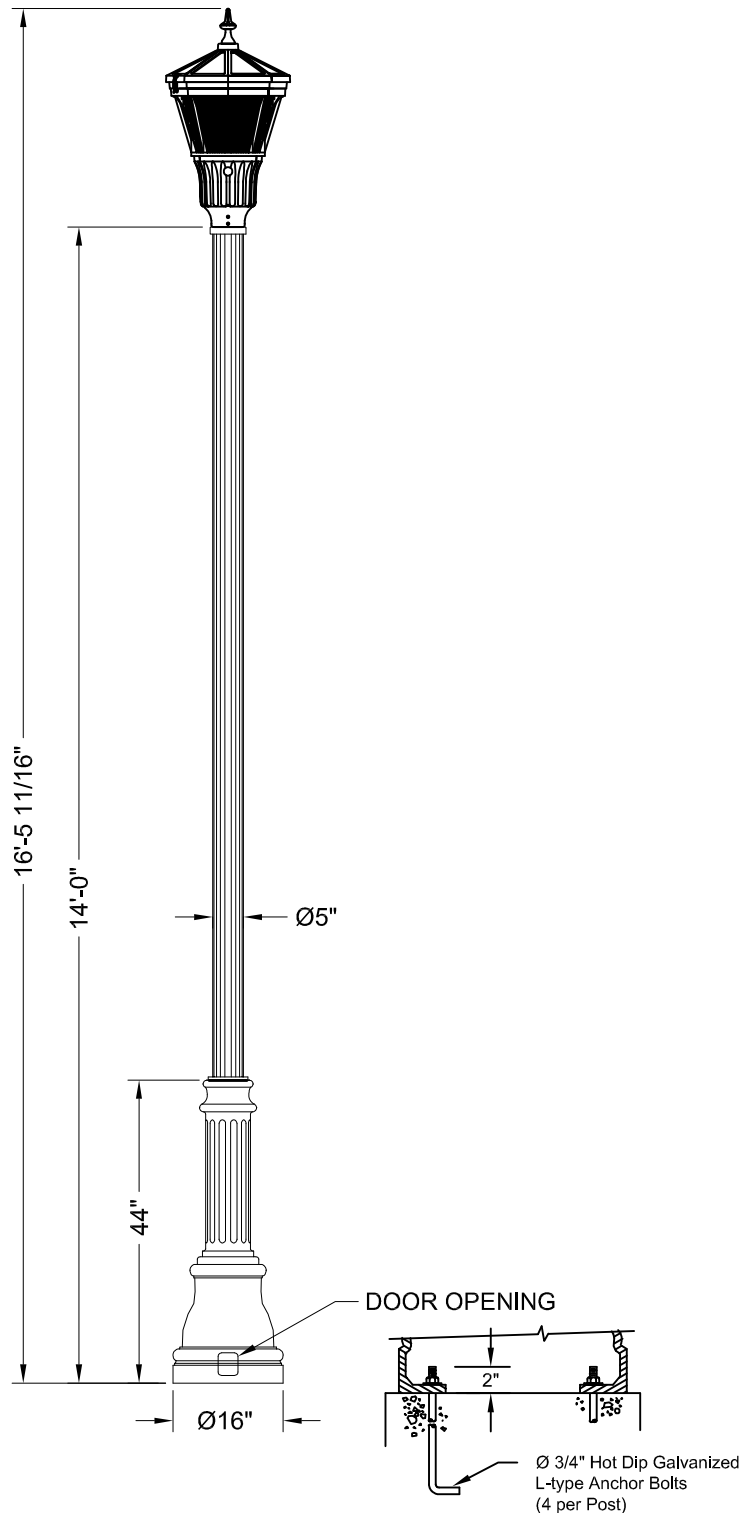
- Utility Arlington LED
- 100W 4K CCT
- Auto-Sensing 120-277v
- Asymmetric Glass Refractor, Spike Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277v

## OPTICAL SYSTEM

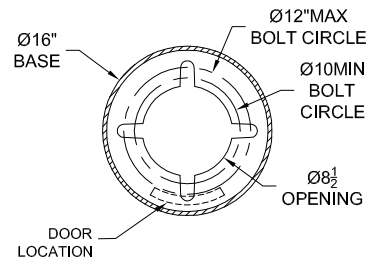
Refractor is a thermal resistant borosilicate glass lens to provide an I.E.S. Type III distribution. Acrylic and polycarbonate lens are not acceptable. The optical system in conjunction with a polished reflector and LED circuit board with dedicated heat sink create a sealed optical compartment.

## ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.



## Anchorage Detail



Catalog #s:

ARUE1004KASG3BSHL25PCS -CHA14L5J16P07ABGBK

Customer Signature

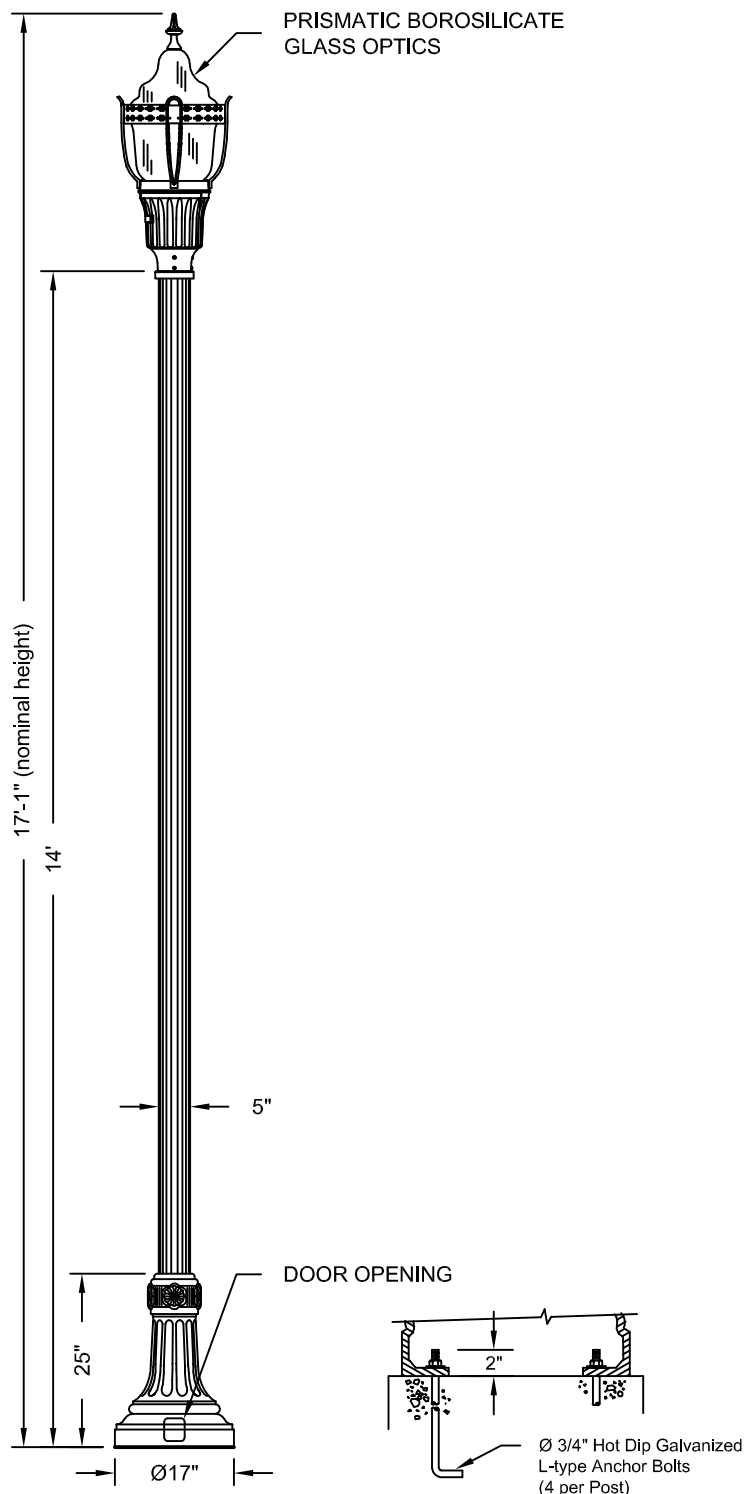
Date



## South Jordan Category 2

ORDER #:	TYPE: Cat 2	DRAWING #:
REVISION:	REVISION DATE:	TSG 003175
DRAWN:	ORIGIN DATE:	PAGE: 1 of 1

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.



## Specifications

### POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design.

### MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

### CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-9.0

### DIMENSIONS

The post shall be 14'-0" in height with a 16" diameter base. The shaft diameter shall be 5" at the top of the post, a tenon with a transitional donut shall be provided for arm mounting.

### INSTALLATION

The post shall use four L-type anchor bolts installed on a 12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

### FINISH

The assembly shall be Holophane black powder coat

### LUMINAIRE DESCRIPTION

- Utility Granville LED
- 100W 4K CCT
- Auto-Sensing 120-277v
- Glass Prismatic Refractor Borosilicate glass, Decorative Cage and Spike Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277v

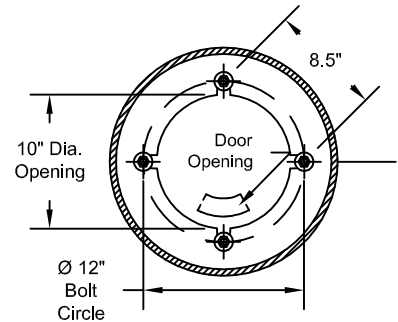
### OPTICAL SYSTEM

The optical system consists of a precisely molded thermal resistant borosilicate glass refractor and top reflector mounted within the decorative aluminum housing and is not removable. The glass top reflector redirects over 50% of the upward light into controlling refractor while allowing an uplight component to define the acorn shape of the luminaire. I.E.S. type III distribution is provided through the refractor prisms. Acrylic or Polycarbonate optical lens are not acceptable.

### ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.

### Anchorage Detail



Catalog #s:

GVD1004KASMB3RSG25HPCSS NYA14F5J17P07ABG

Customer Signature

Date



## South Jordan Category 3

ORDER #:	TYPE: Cat 3	DRAWING #:
REVISION:	REVISION DATE:	TSG 007220
DRAWN:	ORIGIN DATE:	PAGE: 1 of 1

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# Specifications

## POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design.

## MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

## CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-9.0

## DIMENSIONS

The post shall be 14'-0" in height with a 16" diameter base. The shaft diameter shall be 5" at the top of the post.

## INSTALLATION

The post shall use four L-type anchor bolts installed on a 12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

## FINISH

The assembly shall be Holophane black powder coat

## LUMINAIRE DESCRIPTION

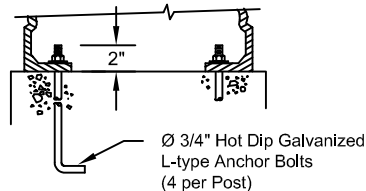
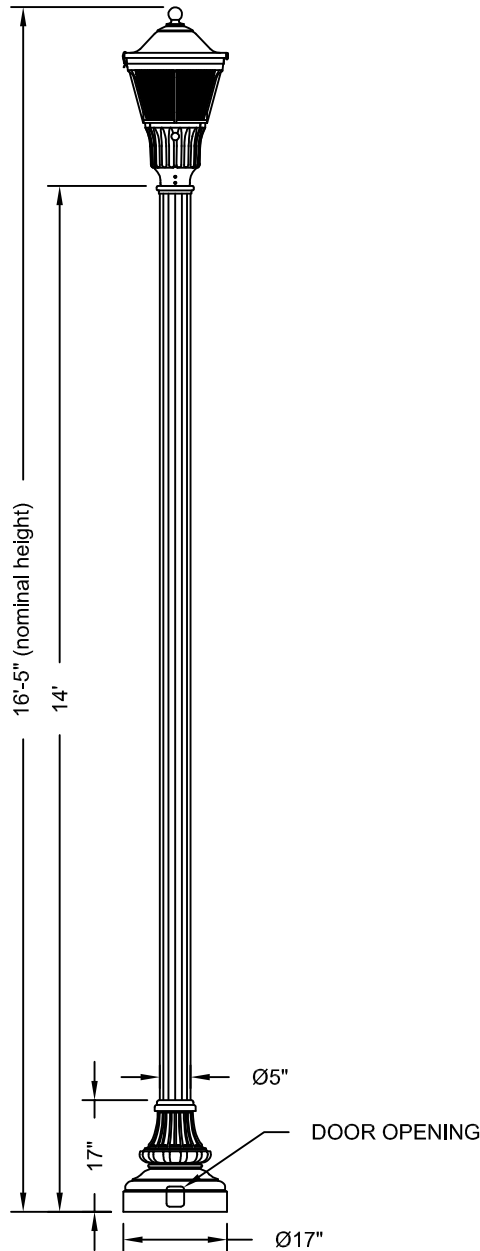
- Utility Postop LED
- 50W 4K CCT
- Auto-Sensing 120-277v
- Asymmetric Glass Refractor, Ball Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277v

## OPTICAL SYSTEM

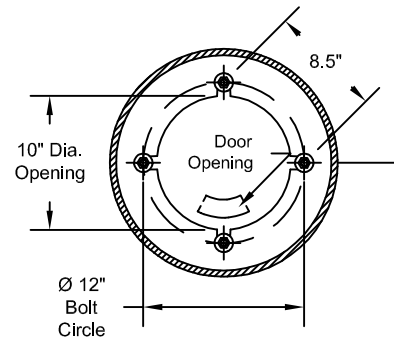
Refractor is a thermal resistant borosilicate glass lens to provide an I.E.S. Type III distribution. Acrylic and polycarbonate lens are not acceptable. The optical system in conjunction with a polished reflector and LED circuit board with dedicated heat sink create a sealed optical compartment.

## ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.



## Anchorage Detail



## Catalog #s:

PTUE504KASG3BBHL25PCS WDA14F5J17P07ABGBK

## Customer Signature



## South Jordan Category 4

ORDER #:	TYPE: Cat 4	DRAWING #:
REVISION:	REVISION DATE:	TSG 003314
DRAWN:	ORIGIN DATE:	PAGE: 1 of 1

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

## **Cable Retainer Assy, For 4" Foundation Anchor, Galvanized Steel**



SP-6224-GLV

Pelco's anti-theft Cable Retainer is the best solution to help prevent copper cable theft in street light poles. Works with Pelco's PB-5364 4" Foundation Anchor or to existing foundations with a 8"-13-1/2" bolt circle. Secures 3/16" to 1/2" diameter cables.

## **Cable Retainer Assy, For 6" Foundation Anchor, Galvanized Steel**



SP-6200-GLV

Pelco's anti-theft Cable Retainer is the best solution to help prevent copper cable theft in street light poles. Works with Pelco's PB-5372 6" Foundation Anchor or to existing foundations with a 9-1/2"-13-1/2" bolt circle. Secures 3/16" to 1/2" diameter cables.

Note: 1. All assemblies are supplied standard with stainless steel fasteners.



## Cable Retainer Assy, For 8" Foundation Anchor, Galvanized Steel

SP-6205-GLV

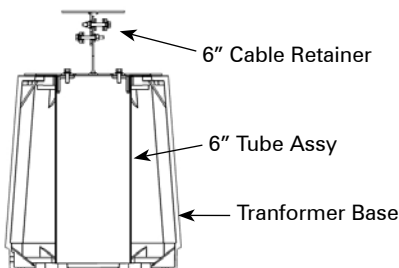
Pelco's anti-theft Cable Retainer is the best solution to help prevent copper cable theft in street light poles. Works with Pelco's PB-5375 8" Foundation Anchor or to existing foundations with a 11-1/2"-17" bolt circle. Secures 3/16" to 1/2" diameter cables.



## Tube Assembly For 6" Cable Retainer, Galvanized Steel

SP-6358-  -GLV

Length  
04.5=4-1/2"  
16.38=16-3/8"



The Tube Assembly mounts underneath Pelco's SP-6200 anti-theft Cable Retainer inside the transformer base. The tube is designed to prevent copper cable theft in street light poles. Available in 4-1/2" or 16-3/8" lengths. Complete with mounting hardware.

Note: 1. All assemblies are supplied standard with stainless steel fasteners.



## Door Assy, TB1-17 Tranformer Base "Copper Safe" Theft Deterrent Steel

Coating  
PB-5520-  
P\_\_=Paint

Pelco's "Copper Safe" Transformer Doors are shatter-resistant and pull-off resistant to protect against copper theft. Typically powder coated P40 Silver, other colors available. Requires AP-5121 Kit for installation.



## Door Assy, TB1-20 Tranformer Base "Copper Safe" Theft Deterrent Steel

Coating  
PB-5526-  
P\_\_=Paint

Pelco's "Copper Safe" Transformer Doors are shatter-resistant and pull-off resistant to protect against copper theft. Typically powder coated P40 Silver, other colors available. Requires AP-5121 Kit for installation.

Note: 1. All assemblies are supplied standard with stainless steel fasteners.  
2. See Reference Section for available paint colors.